02-9101-03-SI
REV. NO. 0

FINAL DRAFT
SITE INSPECTION REPORT
JERRY JONES MACK TRUCK
ROCKAWAY, NEW JERSEY
VOLUME 1 of 2

PREPARED UNDER

TECHNICAL DIRECTIVE DOCUMENT NO. 02-9101-03
CONTRACT NO. 68-01-7346

FOR THE

ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

JUNE 14, 1991

NUS CORPORATION
SUPERFUND DIVISION

SUBMITTED BY:

ANTHONY F. CULMONE, JR.
PROJECT MANAGER

JESS TECSON
SITE MANAGER

REVIEWED/APPROVED BY:

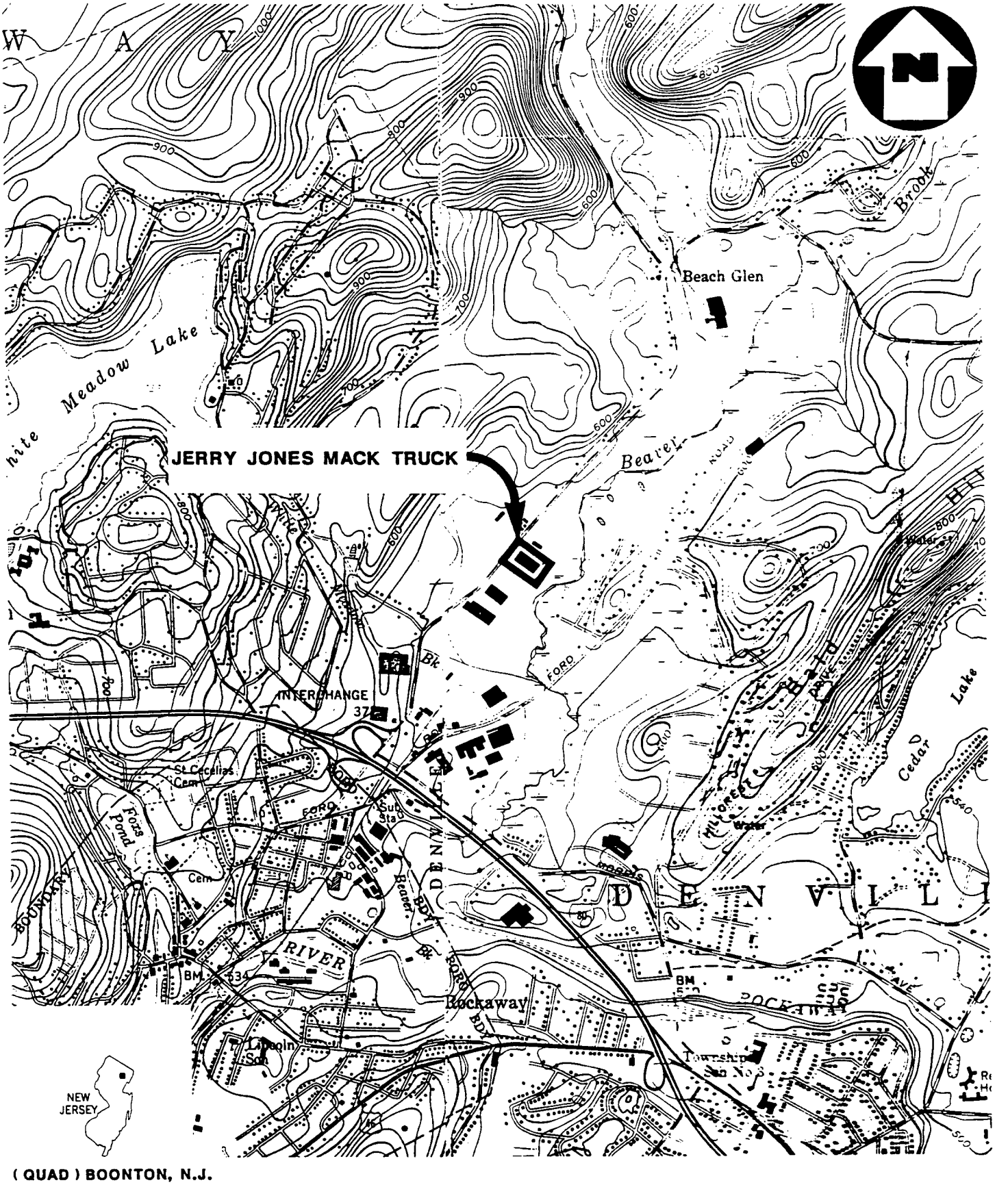
RONALD M. NAMAN
FIT OFFICE MANAGER

SITE SUMMARY AND RECOMMENDATIONS

The Jerry Jones Mack Truck Site is located on Green Pond Road (Rte. 513) in a light industrial area of Rockaway Township, Morris County, New Jersey. One building exists on the 5.1 acre site. The building houses the offices and the service area of Jerry Jones Mack Truck facility. The site property is bounded on the northwest by Green Pond Road, on the northeast and southwest by industrial properties and on the south by Beaver Brook. The Rockaway Township municipal well field exists approximately 2,000 feet southwest of the site. Figures 1 and 2 provide the Site Location and Site Maps, respectively. Picatinny Arsenal is approximately 4 miles northwest of the site. Rockaway Boro, Denville Township, and Boonton Township are within 4 miles south and east of the site (Ref. Nos. 3, 15). The Jerry Jones Mack Truck facility manufactures, services, and sells trucks. It began operation at the site in 1976 and was involved in producing truck body attachments, wheels, and name decals. The facility reportedly used antifreeze, engine and transmission oils and lubricants at the site. The Jerry Jones Mack Truck Site is permitted to discharge to groundwater. A New Jersey Pollutant Discharge Elimination System (NJPDES) permit (No. NJ0066508) was issued to the facility by the New Jersey Department of Environmental Protection (Ref. Nos. 4, pp. 1, 2, 8; 5, p. 6).

Three storage containers exists at the site. One 1,000-gallon underground storage tank is used for fuel oil for the facility's heating system. A 275-gallon underground storage tank exists beneath the service area of the facility building. Waste oils were reportedly discharged into the tank. Both tanks were reportedly tested and found to be in acceptable condition; the 275-gallon underground storage tank is no longer used. The third storage container is a dry well which was mistakenly labeled in 1985 by the NJDEP as a 1,000-gallon underground storage tank. The dry well is located on the eastern corner of the service area of the facility. It was designed by the Township engineer. Waste oil and other waste liquids were reportedly discharged into the dry well through a drainage system within the service area. Waste liquids from steam cleaning processess were also discharged into the dry well. The dry well was reportedly closed and the drainage system was plugged. Approximately 2,000 gallons of liquid wastes were reportedly removed from the dry well and disposed of as combustible liquids. In 1981, waste oil from the dry well reportedly contaminated approximately 50 yds^3 of soil on the northeastern portion of the site property. The discharge of waste oil resulted from overflow of the dry well due to the high water table level of the area. The soil was removed and disposed of by Advanced Environmental Technology (Ref. Nos. 4, 5, 6).

Groundwater samples collected in 1983 from monitoring wells at the Jerry Jones Mack Truck Site showed the presence of organic contaminants. Individual contaminants were reportedly detected at concentrations up to a maximum of 2,000 parts per billion. Methylene chloride, carbon tetrachloride, toluene, xylene, styrene, dimethylbenzene, trimethylbenzene, dichlorobenzene, and trichlorobenzene were detected in the groundwater samples. Base neutral and acid extractable compounds were detected for the first time in groundwater samples that were collected in July 1984 (Ref. No 4, pp.2, 3, 8 and 14).



(QUAD) BOONTON, N.J.

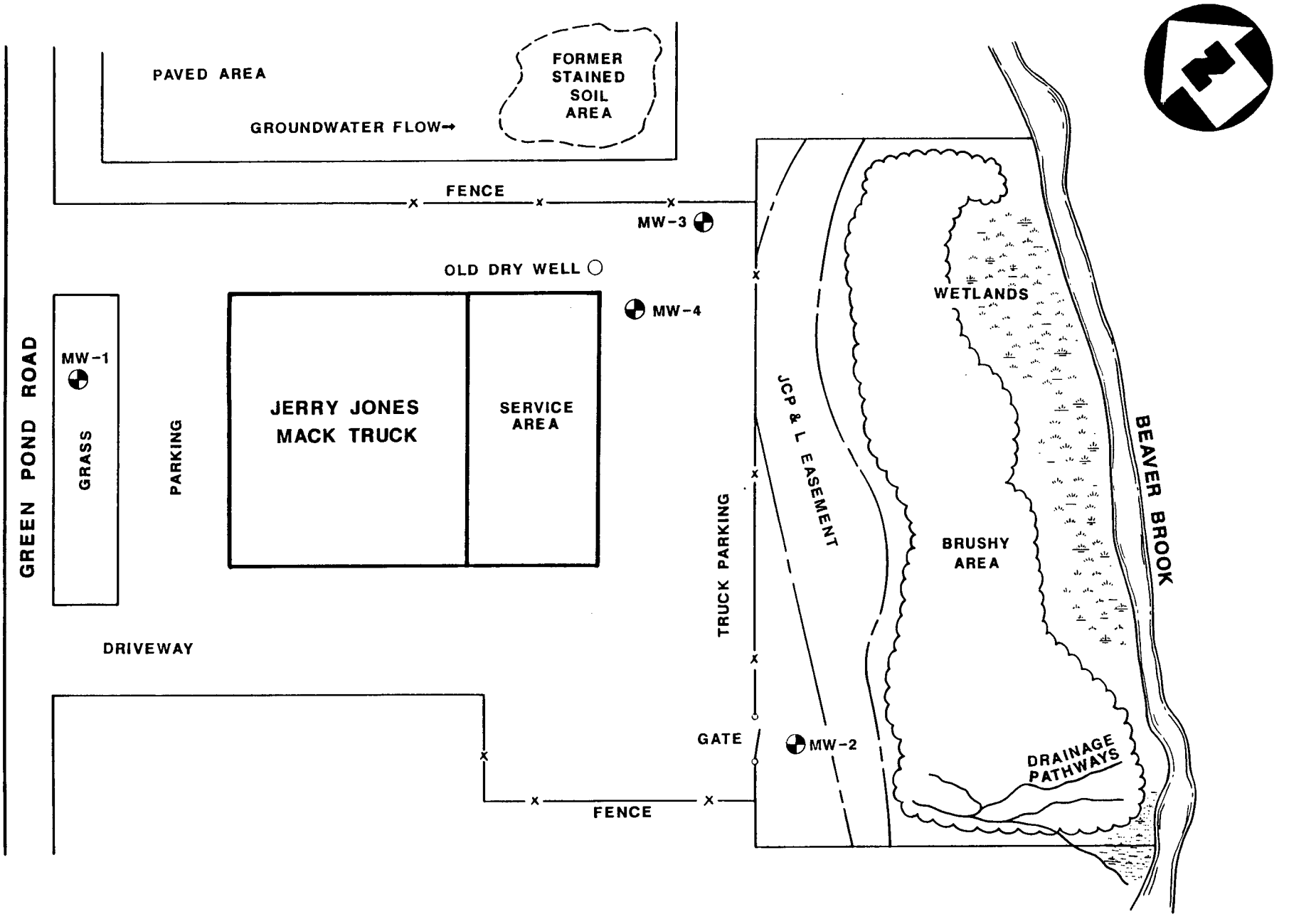
SITE LOCATION MAP

JERRY JONES MACK TRUCK, ROCKAWAY, N.J.

SCALE : 1" = 2000'

FIGURE 1

NUS CORPORATION



SITE MAP

JERRY JONES MACK TRUCK, ROCKAWAY, N.J.

NOT TO SCALE

FIGURE 2

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02-9101-03-SI
Rev. No. 0

SITE SUMMARY AND RECOMMENDATIONS (CONTD)

On February 21, 1991, NUS Corp. Region 2 FIT collected groundwater, surface water, and sediment samples from the Jerry Jones Mack Truck Site to determine whether a release of contaminants that is attributable to the site has occurred. Low levels of volatile organic contaminants (VOCs), semi-volatile organic contaminants (SVOCs), and a pesticide were detected in groundwater samples that are attributable to the Jerry Jones Mack Truck Site. The groundwater samples were collected from the monitoring well located adjacent to the dry well at the site. Significant levels of inorganic contaminants were detected in groundwater samples collected from the upgradient well. However, the contaminants are suspected to be coming from an off-site source. No significant levels of contaminants were detected in groundwater samples collected from the downgradient well. No significant levels of contaminants were detected in surface water and sediment samples collected from the site (Ref. Nos. 6, 11).

It has been determined that the region of the Beaver Brook Buried Valley Aquifer System underlying the industrial area is contaminated. Organic contaminants were detected in groundwater samples collected from the Rockaway Township Municipal Well Field in 1979. The well field is located in the industrial area and approximately 2,000 feet southwest of the Jerry Jones Mack Truck Facility. As a result, the well field was placed on the National Priority List (NPL) in December 1982. According to investigation reports of the Buried Valley Aquifer System, the sources of contaminants which have affected the well field have not been fully determined. The Jerry Jones Mack Truck facility and many other facilities operating in the industrial area are suspected sources of contaminants. Water from the well field is currently treated by a granulated, activated-carbon and an air-stripping system prior to distribution into the public water supply system of Rockaway Township (Ref. Nos. 10, 13).

A recommendation of a **LOWER PRIORITY FOR FURTHER ACTION** under CERCLA/SARA is given for the Jerry Jones Mack Truck Site. The site, along with many other facilities operating in this industrial area, is a suspected source of contaminants which have affected the Rockaway Township Municipal Well Field. The Buried Valley Aquifer System underlies the industrial area. It is a major sole source aquifer system which supplies water to many municipalities in the northern New Jersey area. Investigation reports of the Buried Valley Aquifer System in the vicinity of the industrial area state that organic contaminants potentially attributable to the site were detected in the municipal wells. Groundwater samples collected in February 1991 by NUS Corporation Region 2 FIT from a monitoring well adjacent to the dry well at the Jerry Jones Mack Truck Site indicate the presence of organic contaminants.

SITE ASSESSMENT REPORT: SITE INSPECTION

PART I: SITE INFORMATION

1. **Site Name/Alias** Jerry Jones Mack Truck

   Street Green Pond Road (Route 513)

   City Rockaway **State** New Jersey **Zip** 07866

2. **County** Morris **County Code** 027 **Cong. Dist.** 11

3 **EPA ID No.** NJD078593894

4. **Block No.** 22103 **Lot No.** 15

5. **Latitude** 40° 55' 01"N **Longitude** 74° 29' 40"W

   USGS Quad. Boonton, New Jersey

6. **Owner** Gerald Jones, Jr. and Sr. **Tel. No.** (201) 625-3330

   Street Green Pond Road (Route 513)

   City Rockaway **State** New Jersey **Zip** 07866

7. **Operator** Gerald Jones, Jr. **Tel. No.** (201) 625-3330

   Street Green Pond Road (Route 513)

   City Rockaway **State** New Jersey **Zip** 07866

8. **Type of Ownership**

   ☒ Private ☐ Federal ☐ State
   ☐ County ☐ Municipal ☐ Unknown ☐ Other _____

9. **Owner/Operator Notification on File**

   ☐ RCRA 3001 Date _____ ☐ CERCLA 103c Date _____
   ☐ None ☒ Unknown

10. **Permit Information**

Permit	Permit No.	Date Issued	Expiration Date	Comments
NJPDES	NJ0066508	8/01/88	8/31/93	Discharge to groundwater

11. **Site Status**

    ☒ Active ☐ Inactive ☐ Unknown

12. **Years of Operation** 1976 _____ to Present

13. Identify the types of waste sources (e.g., landfill, surface impoundment, piles, stained soil, above- or below-ground tanks or containers, land treatment, etc.) on site. Initiate as many waste unit numbers as needed to identify all waste sources on site.

(a) Waste Sources

Waste Unit No.	Waste Source Type	Facility Name for Unit
1	Below ground Storage Tank	Waste Oil Storage Tank
2	Below ground Storage Tank	Dry Well

(b) Other Areas of Concern

Identify any miscellaneous spills, dumping, etc. on site; describe the materials and identify their locations on site.

In March 1981, approximately 50 yd^3 of oil contaminated soil was removed from the northeastern border of the site. Waste oil was deposited onto the ground due to overflow thereby discharging the contents from the dry well onto the ground. The contaminated soil was reportedly removed and properly disposed of. Fifty 55-gallon drums of antifreeze, lubricants, and oils were discovered at the site during a site investigation which was conducted in 1984. The drums were reportedly stored on the driveway at the southern end of the service area. The investigation also revealed that poor housekeeping practices were observed at the site (Ref. No. 4, pp. 1, 4, 7 and 8).

14. Information available from

Contact Amy Brochu Agency U.S. EPA Tel. No. (908) 906-6802

Preparer Jess Tecson Agency NUS Corp. Region 2 FIT Date June 14, 1991

PART II: WASTE SOURCE INFORMATION

For each of the waste units identified in Part I, complete the following items.

Waste Unit 1 - Waste Oil Storage Tank

Source Type

_____	Landfill	_____	Contaminated Soil
_____	Surface Impoundment	_____	Pile
_____	Drums	_____	Land Treatment
X	Tanks/Containers	_____	Other

Description:

A 275-gallon underground storage tank is located beneath the service area of the facility. It was used to store waste oil. It was reportedly pumped every two to three weeks. The tank is no longer used. The current site owner reported the tank to be in good condition as it was tested.

Hazardous Waste Quantity

The tank holds approximately 275 gallons.

Hazardous Substances/Physical State

Waste motor oil produced on site was reportedly deposited in the tank

Ref. Nos. 4, p. 7; 6, p. 5

PART II: WASTE SOURCE INFORMATION

For each of the waste units identified in Part I, complete the following items.

Waste Unit 2 - Dry Well

Source Type

_____	Landfill	_____	Contaminated Soil
_____	Surface Impoundment	_____	Pile
_____	Drums	_____	Land Treatment
X	Tanks/Containers	_____	Other

Description:

The dry well is located east of the eastern corner of the service area of the Jerry Jones Mack Truck facility. It collected liquid waste (including oil) from the service area of the facility through a floor drainage system. The dry well was the source of waste which contaminated approximately 50 yd^3 of soil on the northeast portion of the facility in March 1981. The dry well also received steam cleaning wastes from the facility.

Hazardous Waste Quantity

Approximately 2,000 gallons of liquid wastes were reportedly removed from the dry well.

Hazardous Substances/Physical State

The liquid wastes which were removed from the dry well were disposed of as combustible liquid.

Ref. Nos. 4, pp. 1, 4, 7 and 8; 5, p. 2; 6,p. 8

PART III: SAMPLING RESULTS

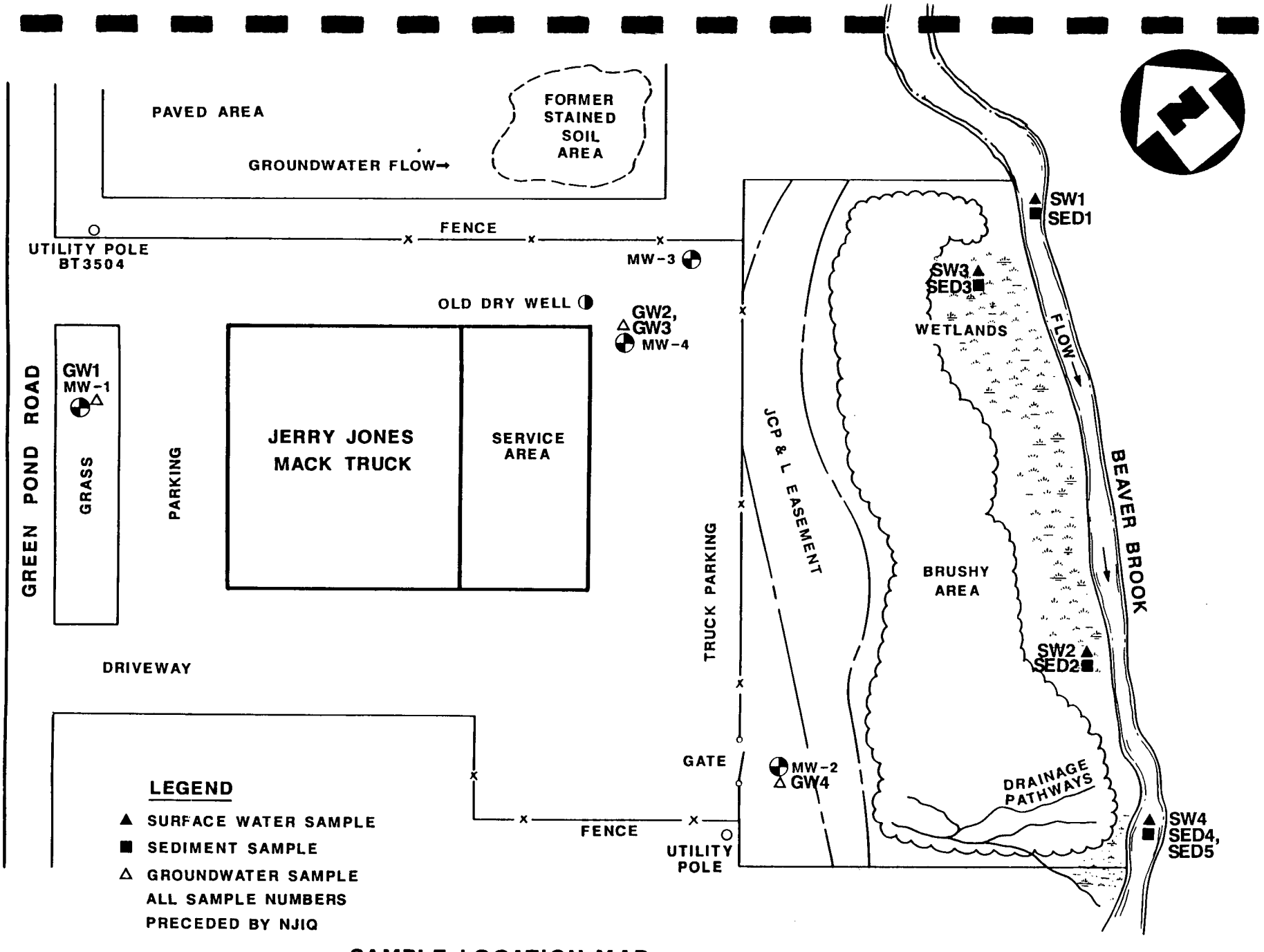
EXISTING ANALYTICAL DATA

Analytical results of groundwater samples collected from three monitoring wells at the Jerry Jones Mack Truck Site in April 1983 indicate that groundwater beneath the site is contaminated. Volatile organic contaminants (VOCs) were detected in the groundwater samples. VOCs that were detected included methylene chloride, toluene, xylenes, styrene, carbon tetrachloride, trimethylbenzene, dichlorobenzene, and trichlorobenzene. The contaminants detected range in concentrations from 50 to 2,000 parts per billion (ppb). Base, neutral and acid extractable compounds were detected in groundwater samples for the first time in 1984 (Ref. No. 4).

SITE INSPECTION RESULTS

Groundwater, surface water, and sediment samples were collected from the Jerry Jones Mack Truck Site by NUS Corporation Region 2 FIT on February 21, 1991. Samples were collected to determine if a release of contaminants had occurred from the site. The samples were analyzed for full Target Compound List (TCL) organic and inorganic compounds, excluding cyanide. Figure 3 provides a Sample Location Map.

Volatile organic contaminants (VOCs), semivolatile organic contaminants (SVOCs), inorganic contaminants and a pesticide were detected in groundwater samples. No polychlorinated biphenyl compounds (PCBs) were detected in any of the samples collected (see Table 1). Toluene was detected in groundwater samples NJIQ-GW2 and GW3 (duplicate samples) at concentrations of 7 and 6 micrograms per liter (ug/L), respectively. Xylenes (total) were detected in the duplicate samples at 25 and 30 ug/L, respectively. 2-butanone was also detected in groundwater samples NJIQ-GW2 (10 ug/L) and GW3 (10 ug/L). Acetone was detected in groundwater sample NJIQ-GW2 at a concentration of 42 ug/L. No VOCs were detected in any of the surface water samples collected from the site. Semivolatile organic contaminants were detected in two groundwater samples. Groundwater samples NJIQ-GW2 and GW3 indicated the presence of phenol(10ug/L and 10 ug/L, respectively), 4-methylphenol (12 ug/L and 11 ug/L), naphthalene (45 ug/L and 41 ug/L), and 2-methylnaphthalene (45 ug/L and 40 ug/L). The same duplicate, groundwater samples (NJIQ-GW2 and GW3) indicated the presence of arsenic (15.7 ug/L and 16.2 ug/L, respectively), cobalt (128 ug/L and 106 ug/L), and manganese (9,510 ug/L and 9,210 ug/L). A pesticide compound was detected in two groundwater samples. Aldrin was detected in groundwater samples NJIQ-GW2 and GW3 at concentrations of 0.16 and 0.13 ug/L, respectively . The duplicate, groundwater samples were collected from one monitoring well located southeast and downgradient of the dry well. Groundwater sample NJIQ-GW1, which was collected from upgradient monitoring well MW-1, revealed the presence of inorganic contaminants at significant levels. However, the contaminants are presumed to originate from an off-site source. No significant concentrations of contaminants were detected in the surface water and sediment samples collected from the site (Table 1 and Ref. No. 11).



SAMPLE LOCATION MAP

JERRY JONES MACK TRUCK, ROCKAWAY, N.J.

NOT TO SCALE

FIGURE 3

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02-9101-03-SI
Rev. No. 0

SITE NAME: JERRY JONES MACK TRUCK
TDD#: 02-9101-03
SAMPLING DATE: 2/21/91 EPA CASE NO.: 15918
LAB: GULF SOUTH ENVIRONMENTAL

TABLE 1

VOLATILES											
Sample ID No.	NJIQ-GW1	NJIQ-GW2	NJIQ-GW3(DUP)	NJIQ-GW4	NJIQ-SW1(MS/MSD)	NJIQ-SW2	NJIQ-SW3	NJIQ-SW4	NJIQ-SED1(MS/MSD)	NJIQ-SED2	NJIQ-SED3
Traffic Report No.	BGQ34	BGQ35	BGQ36	BGQ37	BGQ38	BGQ39	BGQ40	BGQ41	BGQ42	BGQ43	BGQ44
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	SEDIMENT	SEDIMENT	SEDIMENT
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg	ug/kg	ug/kg
Dilution Factor	1	1	1	1	1	1	1	1	1	1	1
Percent Moisture	--	--	--	--	--	--	--	--	37	62	62
Chloromethane											
Bromomethane											
Vinyl Chloride											
Chloroethane											
Methylene Chloride											R
Acetone		42									
Carbon Disulfide											
1,1-Dichloroethene											
1,1-Dichloroethane											
Trans-1,2-Dichloroethene (total)											
Chloroform											
1,2-Dichloroethane											
2-Butanone		10	10								
1,1,1-Trichloroethane											
Carbon Tetrachloride											
Vinyl Acetate											
Bromodichloromethane											
1,2-Dichloropropane											
cis-1,3-Dichloropropene											
Trichloroethene											
Dibromochloromethane											
1,1,2-Trichloroethane											
Benzene											
trans-1,3-Dichloropropene					R	R	R	R			
Bromoform											
4-Methyl-2-Pentanone											
2-Hexanone											
Tetrachloroethene											
Toluene		7	6								
1,1,2,2-Tetrachloroethane											
Chlorobenzene											
Ethylbenzene											
Styrene											
Xylenes (Total)		25	30								

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

SITE NAME: JERRY JONES MACK TRUCK
TDD#: 02-9101-03
SAMPLING DATE: 2/21/91 EPA CASE NO.: 15918
LAB: GULF SOUTH ENVIRONMENTAL

TABLE 1

VOLATILES						
Sample ID No.	NJIQ-SED4	NJIQ-SED5(DUP)	NJIQ-RIN1	NJIQ-RIN2	NJIQ-RIN3	NJIQ-TBLK1
Traffic Report No.	BGQ45	BGQ46	BGQ47	BGQ48	BGQ49	BGQ51
Matrix	SEDIMENT	SEDIMENT	WATER	WATER	WATER	WATER
Units	ug/kg	ug/kg	ug/L	ug/L	ug/L	ug/L
Dilution Factor	1	1	1	1	1	1
Percent Moisture	52	45	--	--	--	--
Chloromethane			13	22	25	29
Bromomethane						
Vinyl Chloride						
Chloroethane						
Methylene Chloride	R		29	18	B	B
Acetone			B	B		
Carbon Disulfide						
1,1-Dichloroethene						
1,1-Dichloroethane						
Trans-1,2-Dichloroethene (total)						
Chloroform						
1,2-Dichloroethane						
2-Butanone	28					
1,1,1-Trichloroethane						
Carbon Tetrachloride						
Vinyl Acetate						
Bromodichloromethane						
1,2-Dichloropropane						
cis-1,3-Dichloropropene						
Trichloroethene						
Dibromochloromethane						
1,1,2-Trichloroethane						
Benzene						
trans-1,3-Dichloropropene					R	R
Bromoform						
4-Methyl-2-Pentanone						
2-Hexanone						
Tetrachloroethene						
Toluene						
1,1,2,2-Tetrachloroethane						
Chlorobenzene						
Ethylbenzene						
Styrene						
Xylenes (Total)						

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

SITE NAME: JERRY JONES MACK TRUCK
TDD#: 02-9101-03
SAMPLING DATE: 2/21/91 EPA CASE NO.: 15913
LAB: GULF SOUTH ENVIRONMENTAL

TABLE 1

SEMI-VOLATILES											
Sample ID No.	NJIQ-GW1	NJIQ-GW2	NJIQ-GW3(DUP)	NJIQ-GW4	NJIQ-SW1(MS/MSD)	NJIQ-SW2	NJIQ-SW3	NJIQ-SW4	NJIQ-SED1(MS/MSD)	NJIQ-SED2	NJIQ-SED3
Traffic Report No.	BGQ34	BGQ35	BGQ36	BGQ37	BGQ38	BGQ39	BGQ40	BGQ41	BGQ42	BGQ43	BGQ44
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	SEDIMENT	SEDIMENT	SEDIMENT
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg	ug/kg	ug/kg
Dilution Factor/GPC Cleanup (f)	1	1	1	1	1	1	1	1	1	1	1
Percent Moisture	--	--	--	--	--	--	--	--	37	62	62
Phenol		10	10								
bis(2-Chloroethyl)ether											
2-Chlorophenol											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
Benzyl alcohol											
1,2-Dichlorobenzene											
2-Methylphenol											
bis(2-Chloroisopropyl)ether											
4-Methylphenol		12	11								
N-Nitroso-di-n-dipropylamine											
Hexachloroethane											
Nitrobenzene											
Isophorone											
2-Nitrophenol											
2,4-Dimethylphenol											
Benzoic acid											
bis(2-Chloroethoxy)methane											
2,4-Dichlorophenol											
1,2,4-Trichlorobenzene											
Naphthalene		45	41								
4-Chloroaniline											
Hexachlorobutadiene											
4-Chloro-3-Methylphenol											
2-Methylnaphthalene		45	39								
Hexachlorocyclopentadiene											
2,4,6-Trichlorophenol											
2,4,5-Trichlorophenol											
2-Chloronaphthalene											
2-Nitroaniline											
Dimethylphthalate											
Acenaphthylene											
2,6-Dinitrotoluene											
3-Nitroaniline											
Acenaphthene											
2,4-Dinitrophenol											
4-Nitrophenol											
Dibenzofuran											
2,4-Dinitrotoluene											
Diethylphthalate											
4-Chlorophenyl-phenyl ether											
Fluorene											
4-Nitroaniline											
4,6-Dinitro-2-methylphenol											
N-nitrosodiphenylamine											
4-Bromophenyl-phenyl ether											
Hexachlorobenzene											

SITE NAME: JERRY JONES MACK TRUCK
TDD#: 02-9101-03
SAMPLING DATE: 2/21/91 EPA CASE NO.: 15918
LAB: GULF SOUTH ENVIRONMENTAL

TABLE 1

SEMI-VOLATILES											
Sample ID No.	NJIQ-GW1	NJIQ-GW2	NJIQ-GW3(DUP)	NJIQ-GW4	NJIQ-SW1(MS/MSD)	NJIQ-SW2	NJIQ-SW3	NJIQ-SW4	NJIQ-SED1(MS/MSD)	NJIQ-SED2	NJIQ-SED3
Traffic Report No.	BGQ34	BGQ35	BGQ36	BGQ37	BGQ38	BGQ39	BGQ40	BGQ41	BGQ42	BGQ43	BGQ44
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	SEDIMENT	SEDIMENT	SEDIMENT
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg	ug/kg	ug/kg
Dilution Factor/GPC Cleanup (Y)	1	1	1	1	1	1	1	1	1	1	1
Percent Moisture	--	--	--	--	--	--	--	--	37	62	62
Pentachlorophenol											
Phenanthrene										J	J
Anthracene											
Di-n-butylphthalate											
Fluoranthene										J	J
Pyrene					J			J		J	J
Butylbenzylphthalate											
3,3'-Dichlorobenzidine											
Benzo(a)anthracene										J	J
Chrysene										J	J
bis(2-Ethylhexyl)phthalate										J	
Di-n-octylphthalate											
Benzo(b)fluoranthene										J	J
Benzo(k)fluoranthene										J	J
Benzo(a)pyrene										J	J
Indeno(1,2,3-cd)pyrene											
Dibenz(a,h)anthracene											
Benzo(g,h,i)perylene											

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

SITE NAME: JERRY JONES MACK TRUCK
TDD#: 02-9101-03
SAMPLING DATE: 2/21/91 EPA CASE NO.: 15918
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TABLE 1

SEMI-VOLATILES						
Sample ID No.	NJIQ-SED4	NJIQ-SED5(DUP)	NJIQ-RIN1	NJIQ-RIN2	NJIQ-RIN3	NJIQ-TBLK1
Traffic Report No.	BGQ45	BGQ46	BGQ47	BGQ48	BGQ49	BGQ51
Matrix	SEDIMENT	SEDIMENT	WATER	WATER	WATER	WATER
Units	ug/kg	ug/kg	ug/L	ug/L	ug/L	ug/L
Dilution Factor/GPC Cleanup (Y)	0.99	1	1	1	1	N/A
Percent Moisture	52	46	--	--	--	N/A
Phenol						NR
bis(2-Chloroethyl)ether						NR
2-Chlorophenol						NR
1,3-Dichlorobenzene						NR
1,4-Dichlorobenzene						NR
Benzyl alcohol						NR
1,2-Dichlorobenzene						NR
2-Methylphenol						NR
bis(2-Chloroisopropyl)ether						NR
4-Methylphenol						NR
N-Nitroso-di-n-dipropylamine						NR
Hexachloroethane						NR
Nitrobenzene						NR
Isophorone						NR
2-Nitrophenol						NR
2,4-Dimethylphenol						NR
Benzoic acid						NR
bis(2-Chloroethoxy)methane						NR
2,4-Dichlorophenol						NR
1,2,4-Trichlorobenzene						NR
Naphthalene						NR
4-Chloroaniline						NR
Hexachlorobutadiene						NR
4-Chloro-3-Methylphenol						NR
2-Methylnaphthalene						NR
Hexachlorocyclopentadiene						NR
2,4,6-Trichlorophenol						NR
2,4,5-Trichlorophenol						NR
2-Chloronaphthalene						NR
2-Nitroaniline						NR
Dimethylphthalate						NR
Acenaphthylene						NR
2,6-Dinitrotoluene						NR
3-Nitroaniline						NR
Acenaphthene						NR
2,4-Dinitrophenol						NR
4-Nitrophenol						NR
Dibenzofuran						NR
2,4-Dinitrotoluene						NR
Diethylphthalate						NR
4-Chlorophenyl-phenyl ether						NR
Fluorene						NR
4-Nitroaniline						NR
4,6-Dinitro-2-methylphenol						NR
N-nitrosodiphenylamine						NR
4-Bromophenyl-phenyl ether						NR
Hexachlorobenzene						NR

TABLE 1

SITE NAME: JERRY JONES MACK TRUCK
TODO: 02-9101-03
SAMPLING DATE: 2/21/91 EPA CASE NO.: 15918
LAB: GULF SOUTH ENVIRONMENTAL

SEMI-VOLATILES						
Sample ID No.	NJIQ-SED4	NJIQ-SED5(DUP)	NJIQ-RIN1	NJIQ-RIN2	NJIQ-RIN3	NJIQ-TBLK1
Traffic Report No.	BGQ45	BGQ46	BGQ47	BGQ48	BGQ49	BGQ51
Matrix	SEDIMENT	SEDIMENT	WATER	WATER	WATER	WATER
Units	ug/kg	ug/kg	ug/l	ug/L	ug/L	ug/L
Dilution Factor/GPC Cleanup (Y)	0.99	1	1	1	1	N/A
Percent Moisture	52	46	--	--	--	N/A
Pentachlorophenol						NR
Phenanthrene	J	J				NR
Anthracene						NR
Di-n-butylphthalate						NR
Fluoranthene	J	J				NR
Pyrene	J	J				NR
Butylbenzylphthalate						NR
3,3'-Dichlorobenzidine						NR
Benzo(a)anthracene	J	J				NR
Chrysene	J	J				NR
bis(2-Ethylhexyl)phthalate	J	J	B	B	B	NR
Di-n-octylphthalate						NR
Benzo(b)fluoranthene	J	J				NR
Benzo(k)fluoranthene	J	J				NR
Benzo(a)pyrene	J	J				NR
Indeno(1,2,3-cd)pyrene						NR
Dibenz(a,h)anthracene						NR
Benzo(g,h,i)perylene						NR

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

TABLE 1

SITE NAME: JERRY JONES MACK TRUCK
TDD#: 02-9101-03
SAMPLING DATE: 2/21/91 EPA CASE NO.: 15918
LAB: GULF SOUTH ENVIRONMENTAL

PESTICIDES											
Sample ID No.	NJIQ-GW1	NJIQ-GW2	NJIQ-GW3(DUP)	NJIQ-GW4	NJIQ-SW1(MS/MSD)	NJIQ-SW2	NJIQ-SW3	NJIQ-SW4	NJIQ-SED1(MS/MSD)	NJIQ-SED2	NJIQ-SED3
Traffic Report No.	BGQ34	BGQ35	BGQ36	BGQ37	BGQ38	BGQ39	BGQ40	BGQ41	BGQ42	BGQ43	BGQ44
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	SEDIMENT	SEDIMENT	SEDIMENT
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg	ug/kg	ug/kg
Dilution Factor/GPC Cleanup (Y)	1	1	1	1	1	1	1	1	1	1	1
Percent Moisture	--	--	--	--	--	--	--	--	37	62	62
alpha-BHC											
beta-BHC											
delta-BHC											
gamma-BHC (Lindane)											
Heptachlor											
Aldrin		0.16	0.13								
Heptachlor epoxide											
Endosulfan I											
Dieldrin											
4,4'-DDE											
Endrin											
Endosulfan II											
4,4'-DDD											
Endosulfan sulfate											
4,4'-DDT											
Methoxychlor											
Endrin ketone											
alpha-Chlordane											
gamma-Chlordane											
Toxaphene											
Aroclor-1016											
Aroclor-1221											
Aroclor-1232											
Aroclor-1242											
Aroclor-1248											
Aroclor-1254											
Aroclor-1260											

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

TABLE 1

SITE NAME: JERRY JONES MACK TRUCK
TDD#: 02-9101-03
SAMPLING DATE: 2/21/91 EPA CASE NO.: 15918
LAB: GULF SOUTH ENVIRONMENTAL

PESTICIDES						
Sample ID No.	NJIQ-SED4	NJIQ-SED5(DUP)	NJIQ-RIN1	NJIQ-RIN2	NJIQ-RIN3	NJIQ-TBLK1
Traffic Report No.	BGQ45	BGQ46	BGQ47	BGQ48	BGQ49	BGQ51
Matrix	SEDIMENT	SEDIMENT	WATER	WATER	WATER	WATER
Units	ug/kg	ug/kg	ug/L	ug/L	ug/L	ug/L
Dilution Factor/GPC Cleanup (Y)	1	1	1	1	1	N/A
Percent Moisture	52	46	--	--	--	N/A
alpha-BHC						NR
beta-BHC						NR
delta-BHC						NR
gamma-BHC (Lindane)						NR
Heptachlor						NR
Aldrin						NR
Heptachlor epoxide						NR
Endosulfan I						NR
Dieldrin						NR
4,4'-DDE						NR
Endrin						NR
Endosulfan II						NR
4,4'-DDD						NR
Endosulfan sulfate						NR
4,4'-DDT						NR
Methoxychlor						NR
Endrin ketone						NR
alpha-Chlordane						NR
gamma-Chlordane						NR
Toxaphene						NR
Aroclor-1016						NR
Aroclor-1221						NR
Aroclor-1232						NR
Aroclor-1242						NR
Aroclor-1248						NR
Aroclor-1254						NR
Aroclor-1260						NR

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

TABLE 1

SITE NAME: JERRY JONES MACK TRUCK
TDD#: 02-9101-03
SAMPLING DATE: 2/21/91
EPA CASE NO.: 15918
LAB NAME: SKINNER & SHERMAN

INORGANICS											
Sample ID No.	NJIQ-GW1	NJIQ-GW2	NJIQ-GW3(DUP)	NJIQ-GW4	NJIQ-SW1(MS/MSD)	NJIQ-SW2	NJIQ-SW3	NJIQ-SW4	NJIQ-SED1(MS/MSD)	NJIQ-SED2	NJIQ-SED3
Traffic Report No.	MBDZ33	MBDZ34	MBDZ35	MBDZ36	MBDZ37	MBDZ38	MBDZ39	MBDZ40	MBDZ41	MBDZ52	MBDZ43
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	SEDIMENT	SEDIMENT	SEDIMENT
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/kg	mg/kg	mg/kg
Aluminum	32600	2790	1720	415	J	11600	12600	J	9540	22900	20800
Antimony	J		J				J		J		J
Arsenic	J	15.7	16.2	J					J	8.1	6.1
Barium	300	J	J	J	J	J	213	J	J	101	119
Beryllium	J								J	J	J
Cadmium								J			
Calcium	50300	38400	38900	10000	6630	11000	20900	6600	1510	J	2140
Chromium	61.4	J	J	J		19.8	60.1		14.8	44.6	80
Cobalt	J	128	106	J		J	J		J	J	J
Copper	73.7	J	J	J	J	30.4	77.8		J	37.6 E	41.6 E
Iron	124000 E	80100 E	70800 E	13900 E	226 E	8790 E	13800 E	248 E	13900	21000	16800
Lead	R	R	R	R	J	81	127	4 E	6.9	148	94.2
Magnesium	15700	6400	6310	J	J	J	7410	J	1490	2480	2300
Manganese	822	9510	9210	1090	27.9	307	634	28.5	304	351	143
Mercury		R	R			R	R			0.25 E	0.25 E
Nickel	42.2	J	J	J		J	J		J	J	J
Potassium	9230	6980	7090	J	J	J	J	J	J	J	J
Selenium											
Silver											
Sodium	342000 E	51900 E	49600 E	5980 E	9410 E	20800 E	56200 E	9540 E	J	J	J
Thallium											
Vanadium	95.5					J	J		25.4	52.4	43
Zinc	101	21.7	J	25.9	J	270	730	J	25.7	204	262

NOTES:
Blank space - compound analyzed for but not detected
E - estimated value
J - estimated value, compound present below CRDL but above IDL
R - analysis did not pass EPA QA/QC
NR - analysis not required

SITE NAME: JERRY JONES MACK TRUCK
TDD#: 02-9101-03
SAMPLING DATE: 2/21/91
EPA CASE NO.: 15918
LAB NAME: SKINNER & SHERMAN

TABLE 1

INORGANICS Sample ID No. Traffic Report No. Matrix Units	NJIQ-SED4 MBDZ44 SEDIMENT mg/kg	NJIQ-SED5(DUP) MBDZ45 SEDIMENT mg/kg	NJIQ-RIN1 MBDZ46 WATER ug/L	NJIQ-RIN2 MBDZ47 WATER ug/L	NJIQ-RIN3 MBDZ48 WATER ug/L	NJIQ-TBLK1 N/A N/A ug/L
Aluminum	8760	7400		J	J	NR
Antimony				J		NR
Arsenic	J	J				NR
Barium	J	J	J	J	J	NR
Beryllium	J	J				NR
Cadmium						NR
Calcium	J	J	J	J	J	NR
Chromium	14.8	12.6				NR
Cobalt	J	J				NR
Copper	12.3 E	10.3 E	J	J	J	NR
Iron	17500	16200	J	J	J	NR
Lead	30.9	26.1	J	4.4 E	10.1	NR
Magnesium	J	J	J	J	J	NR
Manganese	265	223				NR
Mercury		0.18 E				NR
Nickel	J	J				NR
Potassium	J	J		J		NR
Selenium						NR
Silver						NR
Sodium	J	J		J	J	NR
Thallium						NR
Vanadium	21.2	J				NR
Zinc	74.7	53.6	J	J	J	NR

NOTES:
Blank space - compound analyzed for but not detected
E - estimated value
J - estimated value, compound present below CRDL but above IDL
R - analysis did not pass EPA QA/QC
NR - analysis not required

PART IV: HAZARD ASSESSMENT

GROUNDWATER ROUTE

1. **Describe the likelihood of a release of contaminant(s) to the groundwater as follows: observed release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release, define the supporting analytical evidence.**

There is an observed release of contaminants to the groundwater that is attributable to the Jerry Jones Mack Truck Site. Contaminants were detected in groundwater samples collected by NUS Corporation Region 2 FIT on February 21, 1991. Groundwater samples NJIQ-GW2 and NJIQ-GW3 (duplicate) showed contamination and were collected from on-site monitoring well MW-4, which is located southeast and downgradient of the dry well (Waste Source No. 2). Xylenes (total) (25 ug/L and 30 ug/L), and toluene (7 ug/L and 6 ug/L), were detected in groundwater samples NJIQ-GW2 and GW3. 2-butanone (10 ug/L and 10 ug/L) was also detected in both duplicate samples. Acetone was detected in sample NJIQ-GW2 at a concentration of 42 ug/L. Phenol (10 ug/L and 10 ug/L respectively), 4-methylphenol (12 ug/L and 11 ug/L), naphthalene (45 ug/L and 41 ug/L), and 2-methylnaphthalene (45 ug/L and 40 ug/L) were also detected in the same groundwater samples (NJIQ-GW2 and GW3). The pesticide aldrin, was detected in groundwater sample NJIQ-GW2 and GW3 at concentrations of 0.16 and 0.13 ug/L, respectively. Inorganic contaminants that were detected in groundwater samples are suspected to come from an off-site source.

According to a February 14, 1985 preliminary assessment report of the Jerry Jones Mack Truck Site, contaminants were detected in groundwater samples collected from monitoring wells existing at the site. Volatile organic contaminants (VOCs) were detected at concentrations ranging from 50 to 2,000 parts per billion (ppb). VOCs comprised of xylene, styrene, carbon tetrachloride, toluene, methylene chloride, dichlorobenzene, trichlorobenzene and trimethylbenzene were detected in groundwater samples collected in 1983.

The Jerry Jones Mack Truck facility operated a dry well which was formerly known as the 1,000 gallon waste oil tank. Oil wastes and other liquid wastes which were produced in the service area of the facility drained into the dry well. Liquid wastes from steam cleaning processes were also deposited into the dry well. The dry well reportedly overflowed due to the high water table of the site area. In 1981, the dry well was the source of liquid wastes which contaminated 50 yd^3 of soil on the eastern portion of the site property.

Ref. Nos. 4, 5, 6, 11

2. **Describe the aquifer of concern; include information such as depth, thickness, geologic composition, areas of karst terrain, permeability, overlying strata, confining layers, interconnections, discontinuities, depth to water table, groundwater flow direction.**

The aquifer of concern is the Beaver Brook Buried Valley Aquifer. This aquifer consists of three layers which has been designated as a sole source aquifer. The uppermost portion is soil composed of sand, gravel, and undifferentiated till. The soil varies in thickness from 0 to 15 feet. This soil is derived from weathered gneiss bedrock and includes the Rockaway-Hibernia soil type. These combined soil types have an estimated permeability of 10^{-3} to 10^{-5} cm/sec.

The middle layer consists of unconsolidated Wisconsin Age glacial drift deposits consisting of sand, gravel, and beds of silt and clay that have an estimated permeability of 10^{-3} to 10^{-5} cm/sec. Its thickness varies from approximately 10 to 125 feet. Groundwater in the vicinity of the site occurs at a depth of approximately 1.0 feet to 7.0 feet and generally flows in an east-southeast direction toward Beaver Brook. Confined and unconfined groundwater conditions occur due to localized confining layers of clay and glacial silt deposits.

The basal layer is bedrock consisting of brownish-grey Byram Gneiss and light-colored Losee Gneiss of Precambrian Age. These rocks occur as tabular masses that peak northeast and dip steeply to the southeast and can be found at a depth of approximately 125 feet. Movement of

groundwater occurs within intersecting fractures of these rocks. The capacity to store and transmit water decreases with depth. The permeability value associated with these rocks is estimated to be less than 10^{-7} cm/sec. This bedrock aquifer and the overlying glacial aquifer are hydraulically connected.

Ref. Nos. 7, 8, 9, 10

3. **Is a designated well head protection area within 4 miles of the site?**

There are no designated well head protection areas within 4 miles of the site.

Ref. No. 12

4. **What is the depth from the lowest point of waste disposal/storage to the highest seasonal level of the saturated zone of the aquifer of concern?**

The depth is zero. Contaminants were detected in groundwater samples collected from monitoring well MW-4. Therefore, the depth of the well is the lowest point at which wastes were deposited. The depth of monitoring well MW-4 is approximately 14.0 feet below ground surface. Groundwater in the vicinity of the site occurs at a depth of approximately between 1.0 feet to 7.0 feet.

Ref. Nos. 6, 12

5. **What is the permeability value of the least permeable continuous intervening stratum between the ground surface and the aquifer of concern?**

The intervening stratum between the ground surface and the aquifer of concern consists of sand, gravel, and undifferentiated till. The permeability value associated with this intervening stratum is 10^{-3} to 10^{-5} cm/sec.

Ref. No. 7, 8

6. **What is the net precipitation for the area?**

The net annual precipitation for the region is approximately 16 inches. It is obtained by subtracting the mean annual lake evaporation from the normal total annual precipitation for the area.

Ref. No. 8

7. **What is the distance to and depth of the nearest well that is currently used for drinking purposes?**

The Rockaway Township Well Field, consisting of three wells, is located approximately 2,000 feet southwest of the site. The wells range in depth from 150 feet to 160 feet.

Ref. Nos. 4, 7, 13, 14

8. **If a release to groundwater is observed or suspected, determine the number of people that obtain drinking water from wells that are documented or suspected to be located within the contamination boundary of the release.**

None. The documented release of contaminants to groundwater is presumably confined to the Jerry Jones Mack Truck facility. No contaminants were detected in groundwater samples collected from the monitoring well downgradient of the facility. No drinking water wells exist within the presumed boundary of groundwater contamination.

Ref. Nos. 11, 15, 16

9. **Identify the population served by wells located within 4 miles of the site that draw from the aquifer of concern.**

Distance	Population*
0 - ¼ mi	0
> ¼ - ½ mi	20,005
> ½ - 1 mi	16,520
> 1 - 2 mi	43
> 2 - 3 mi	100
> 3 - 4 mi	205

* See Reference No. 15 for distribution of population served by municipal wells and private wells.

Ref. Nos. 15 (Project Note), 16, 17, 18, 19, 21

10. **Identify uses of groundwater within 4 miles of the site (i.e. private drinking source, municipal source, commercial, irrigation, unuseable).**

The uses of groundwater within a 4-mile radius of the site include potable domestic, municipal, industrial, and commercial water supplies.

Ref. Nos. 14, 16

SURFACE WATER ROUTE

11. **Describe the likelihood of a release of contaminant(s) to surface water as follows: observed release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release, define the supporting analytical evidence.**

There is little likelihood for a release of contaminants to surface water that is attributable to the Jerry Jones Mack Truck Site. No significant concentrations of contaminants were detected in any of the surface water or sediment samples collected from the site.

Ref. Nos. 6, 11

12. **Identify the nearest downslope surface water. If possible, include a description of possible surface drainage patterns from the site.**

The nearest downslope surface water is Beaver Brook. It flows along the southeastern property boundary of the Jerry Jones Mack Truck facility. Any surface water runoff from the site would flow towards the brook.

Beaver Brook is a tributary of the Rockaway River. The Rockaway River discharges into the Jersey City/Boonton Reservoir, approximately 11.5 miles along the surface water route downstream of the site.

Ref. Nos. 6, 15

13. **What is the distance to the nearest downslope surface water? Measure the distance along a course that runoff can be expected to follow.**

The distance to the nearest downslope surface water is approximately 500 feet. The distance is measured from the main building of the Jerry Jones Mack Truck facility to Beaver Brook.

Ref. Nos. 6, 15

14. **Determine the floodplain that the site is located within.**

A portion of the site is located within an area of 100-year floodplain. A small section of site property lies in an area between the limits of the 100-year flood and the 500-year floodplains.

Ref. No. 22

15. **What is the 2-year 24-hour rainfall?**

The 2-year 24-hour rainfall in the area of the site is approximately 3.5 inches.

Ref. No. 23

16. **Identify drinking water intakes in surface waters within 15 miles downstream of the site. For each intake identify: the distance from the point of surface water entry, population served, and stream flow at the intake location.**

A surface water intake can be found approximately 12.5 miles along the surface water route downstream from the site. The intake is located on the northeast section of the Jersey City/Boonton Reservoir at the point where the Rockaway River continues to flow east. Approximately 50 million gallons per day (MGD) are drawn from this intake. It is owned and operated by the Jersey City Water Department and serves approximately 300,000 people.

Ref. Nos. 15, 24

17. **Identify fisheries that exist within 15 miles downstream of the point of surface water entry. For each fishery specify the following information:**

Fishery	Water Body Type	Flow (cfs)
Beaver Brook	small to moderate stream	10 to 100
Rockaway River	large stream to river	1,000 to 10,000

Ref. Nos. 6, 15, 25, 26

18. **Identify sensitive environments that exist within 15 miles of the point of surface water entry. For each sensitive environment specify the following:**

Environment	Water Body Type	Flow (cfs)
Wetlands	Small to moderate stream	10 to 100
Wetlands	Large stream to river	1,000 to 10,000

Ref. No. 27

19. **If a release to surface water is observed or suspected, identify any intakes, fisheries, and sensitive environments from question Nos. 16-18 that are or may be located within the contamination boundary of the release.**

A release to surface water is not observed or suspected.

Ref. Nos. 6, 11

SOIL EXPOSURE PATHWAY

20. **Determine the number of people that occupy residences or attend school or day care on or within 200 feet of the site property.**

There are no people that occupy residences, attend school or day care on or within 200 feet of the site property.

Ref. No. 6, 15

21. **Determine the number of people that work on or within 200 feet of the site property.**

There are 40 people currently employed at the Jerry Jones Mack Truck facility.

Ref. No. 28

22. **Identify terrestrial sensitive environments on or within 200 feet of the site property.**

There are no terrestrial sensitive environments on or within 200 feet of the site property.

Ref. Nos. 6, 15

AIR ROUTE

23. **Describe the likelihood of release of contaminants to air as follows: observed release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release define the supporting analytical evidence.**

There is little likelihood for a release of contaminants to air. No air instrument readings were obtained using the organic vapor analyzer or HNu by the FIT 2 personnel during a site inspection conducted in February 22, 1991.

Ref.Nos. 4, 5, 6

24. **Determine populations that reside within 4 miles of the site.**

Distance	Population
0 - $\frac{1}{4}$ mi	48
> $\frac{1}{4}$ - $\frac{1}{2}$ mi	154
> $\frac{1}{2}$ - 1 mi	1,774
>1 - 2 mi	17,587
>2 - 3 mi	14,396
>3 - 4 mi	24,462

Ref. Nos. 15, 21, 29

25. **Identify sensitive environments and wetlands acreage within $\frac{1}{2}$ mile of the site.**

Sensitive Environment Type	Distance	Acres
Wetlands*	0 to $\frac{1}{4}$ mile	47
Wetlands*	$\frac{1}{4}$ to $\frac{1}{2}$ mile	103

* Include palustrine forested, palustrine scrub-shrub, and palustrine emergent wetlands.

Ref. Nos. 15, 27

26. **If a release to air is observed or suspected, determine the number of people that reside or are suspected to reside within the area of air contamination from the release.**

A release of contaminants to air was not observed or suspected.

Ref. No. 6

27. **If a release to air is observed or suspected, identify any sensitive environments, listed in question No. 25, that are or may be located within the area of air contamination from the release.**

A release of contaminants to air was not observed or suspected.

Ref. No. 6

ATTACHMENT 1

EXHIBIT A

PHOTOGRAPH LOG

JERRY JONES MACK TRUCK
ROCKAWAY, NEW JERSEY

SITE RECONNAISSANCE: FEBRUARY 5, 1991

SITE INSPECTION: FEBRUARY 21, 1991

JERRY JONES MACK TRUCK
ROCKAWAY, NEW JERSEY
FEBRUARY 5, 1991

PHOTOGRAPH INDEX

ALL PHOTOGRAPHS TAKEN BY MICHAEL F. SCHWEITZER

Photo Number	Description	Time
1P-1	Photograph looking southeast at marshy area at a bearing of 147° from southeast corner of building.	1111
1P-2	Photograph looking northeast at electrical easement/ dirt road turn around area.	1117
1P-3	Photo looking east at MW-3.	1145
1P-4	Photo looking southeast at MW-4.	1158
1P-5	Photo looking southeast at MW-1.	1212
1P-6	Photo looking south at Jerry Jones Mack Truck building.	1215
1P-7	Photo looking east at Jerry Jones Mack Truck building.	1217
1P-8	Photo of parked trucks along fence at rear end of building.	1219
1P-9	Photo looking northwest at MW-2.	1230
1P-10	Photo looking south at cover of old dry-well.	1235

JERRY JONES MACK TRUCK, ROCKAWAY, NEW JERSEY

1P-1 February 5, 1991 1111
Photograph looking southeast at marshy area at a bearing of 147° from southeast corner of building.

1P-2 February 5, 1991 1117
Photograph looking northeast at electrical easement/ dirt road turn around area.

JERRY JONES MACK TRUCK, ROCKAWAY, NEW JERSEY

1P-3

February 5, 1991
Photo looking east at MW-3.

1145

1P-4

February 5, 1991
Photo looking southeast at MW-4.

1158

JERRY JONES MACK TRUCK, ROCKAWAY, NEW JERSEY

1P-5 February 5, 1991 1212
Photo looking southeast at MW-1.

1P-6 February 5, 1991 1215
Photo looking south at Jerry Jones Mack Truck building.

JERRY JONES MACK TRUCK, ROCKAWAY, NEW JERSEY

1P-7

February 5, 1991 1217
Photo looking east at Jerry Jones Mack Truck building.

1P-8

February 5, 1991 1219
Photo of parked trucks along fence at rear end of building.

JERRY JONES MACK TRUCK, ROCKAWAY, NEW JERSEY

1P-9 February 5, 1991 1230
Photo looking northwest at MW-2.

1P-10 February 5, 1991 1235
Photo looking south at cover of old dry-well.

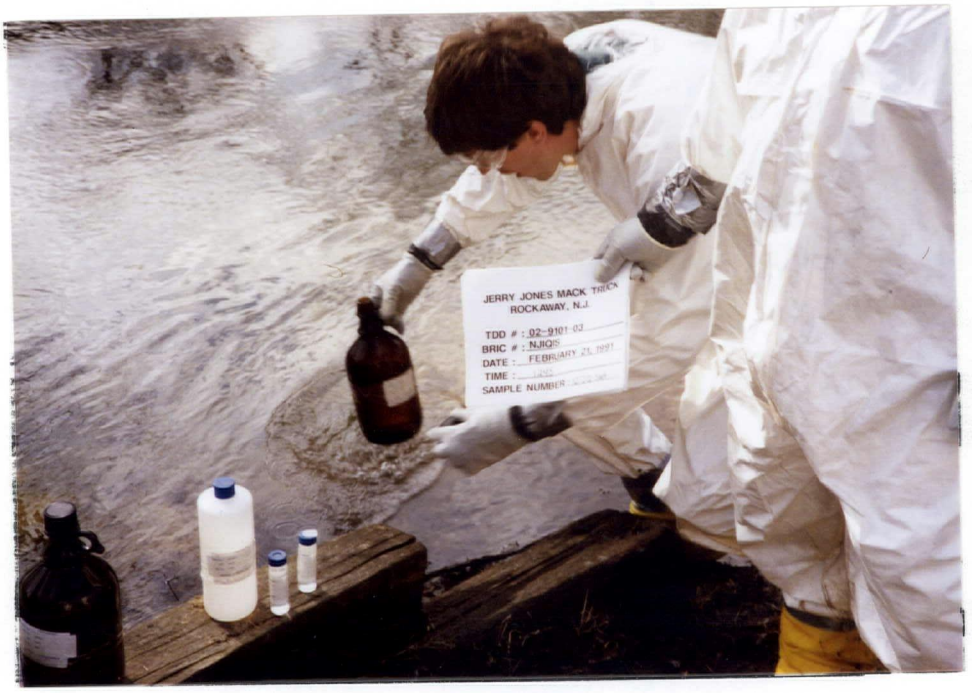
JERRY JONES MACK TRUCK
ROCKAWAY, NEW JERSEY
FEBRUARY 21, 1991

PHOTOGRAPH INDEX

ALL PHOTOGRAPHS WERE TAKEN BY MICHAEL F. SCHWEITZER

Photo Number	Description	Time
1P-1	Photo of T. Mulder collecting surface water sample NJIQ-SW4 from Beaver Brook.	1245
1P-2	Photo of R. Settino collecting sediment sample NJIQ-SED4 (SW4 location).	1250
1P-3	Photo of R. Settino collecting sediment sample NJIQ-SED5 (SW4 location).	1255
1P-4	Photo of R. Settino collecting surface water sample NJIQ-SW2 from Beaver Brook.	1315
1P-5	Photo of T. Mulder collecting sediment sample NJIQ-SED2 (SW2 location).	1320
1P-6	Photo of T. Mulder collecting surface water sample NJIQ-SW1 from Beaver Brook.	1340
1P-7	Photo of T. Mulder collecting sediment sample NJIQ-SED1 (SW1 location).	1345
1P-8	Photo of R. Settino collecting surface water sample NJIQ-SW3.	1405
1P-9	Photo of R. Settino collecting sediment sample NJIQ-SED3 (SW3 location).	1410
1P-10	Photo of R. Settino collecting groundwater sample NJIQ-GW4 from MW-2.	1450
1P-11	Photo of T. Mulder collecting groundwater sample NJIQ-GW2 from MW-4.	1515
1P-12	Photo of T. Mulder collecting groundwater sample NJIQ-GW3 from MW-4.	1518
1P-13	Photo of R. Settino collecting groundwater sample NJIQ-GW1 from MW-1.	1530

JERRY JONES MACK TRUCK, ROCKAWAY, NEW JERSEY



1P-1 February 21, 1991 1245
Photo of T. Mulder collecting surface water sample NJIQ-SW4 from Beaver Brook.

1P-2 February 21, 1991 1250
Photo of R. Settino collecting sediment sample NJIQ-SED4 (SW4 location).

JERRY JONES MACK TRUCK, ROCKAWAY, NEW JERSEY

1P-3 February 21, 1991 1255
Photo of R. Settino collecting sediment sample NJIQ-SED5 (SW4 location).

1P-4 February 21, 1991 1315
Photo of R. Settino collecting surface water sample NJIQ-SW2 from Beaver Brook.

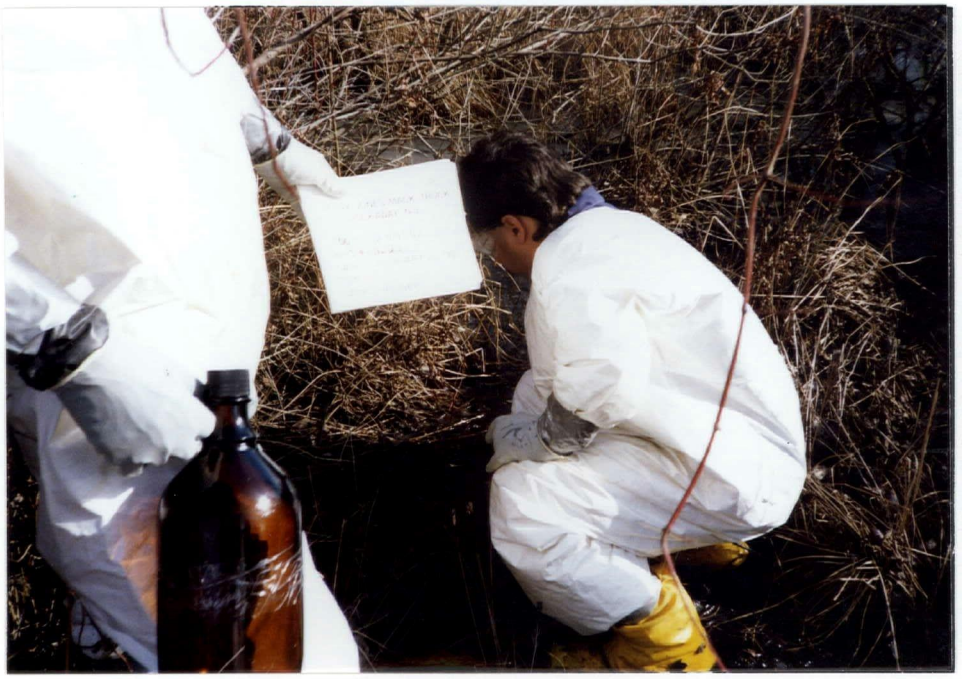
JERRY JONES MACK TRUCK, ROCKAWAY, NEW JERSEY

1P-5 February 21, 1991 1320
Photo of T. Mulder collecting sediment sample NJIQ-SED2 (SW2 location).

1P-6 February 21, 1991 1340
Photo of T. Mulder collecting surface water sample NJIQ-SW1 from Beaver Brook.

JERRY JONES MACK TRUCK, ROCKAWAY, NEW JERSEY

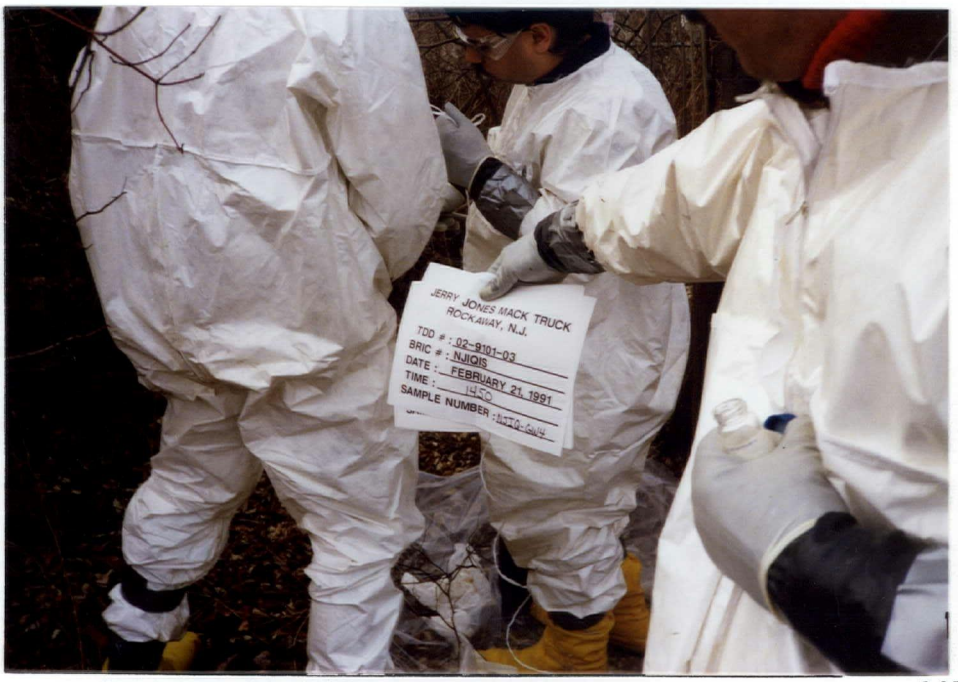
1P-7 February 21, 1991 1345
Photo of T. Mulder collecting sediment sample NJIQ-SED1 (SW1 location).



1P-8 February 21, 1991 1405
Photo of R. Settino collecting surface water sample NJIQ-SW3.

JERRY JONES MACK TRUCK, ROCKAWAY, NEW JERSEY

1P-9 February 21, 1991 1410
Photo of R. Settino collecting sediment sample NJIQ-SED3 (SW3 location).



1P-10 February 21, 1991 1450
Photo of R. Settino collecting groundwater sample NJIQ-GW4 from MW-2.

JERRY JONES MACK TRUCK, ROCKAWAY, NEW JERSEY

1P-11 February 21, 1991 1515
Photo of T. Mulder collecting groundwater sample NJIQ-GW2 from MW-4.

1P-12 February 21, 1991 1518
Photo of T. Mulder collecting groundwater sample NJIQ-GW3 from MW-4.

JERRY JONES MACK TRUCK, ROCKAWAY, NEW JERSEY

1P-13 February 21, 1991 1530
Photo of R. Settino collecting groundwater sample NJIQ-GW1 from MW-1.

ATTACHMENT 2

REFERENCES

1. U.S. EPA Superfund Program, Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), List-8, Site/Event Listing, p. 101, List-4, and Site Alias Location Listing, p. 123, April 1, 1991.

2. Election Division, New Jersey Department of State, CN 304, Trenton, New Jersey Congressional Districts, January 1987.

3. Tax Map, Jerry Jones Mack Truck Property, Rockaway Township, Morris County, New Jersey.

4. Malcolm Pirnie, Inc., Potential Hazardous Waste Site Preliminary Assessment Report, Jerry Jones Mack Truck, February 14, 1985.

5. Letter from Stephen W. Johnson, Chief, Bureau of Ground Water Discharge Control, Division of Water Resources, NJDEP, to Gerald Jones, Jerry Jones Mack Truck, Inc. July 28, 1988.

6. Field Notebook No. 0740, Jerry Jones Mack Truck, TDD No. 02-9101-03, On-Site Reconnaissance, February 5, 1991, and Site Inspection, February 21, 1991, NUS Corporation Region 2 FIT, Edison, New Jersey.

7. The Buried Valley Aquifer Systems: Resources and Contamination, Passaic River Coalition, 1986.

8. Uncontrolled hazardous waste site ranking system, A user's manual, 40 CFR, Part 300, Appendix A, 1986.

9. Federal Register, Volume 49, No. 16, Tuesday, January 24, 1984, Notice, Unconsolidated Quaternary Aquifer in the Rockaway River area, Final Determination.

10. Draft report on background investigations, Rockaway Township well field site, Morris County, New Jersey, ICF/SRW Associates, Inc., February 1987.

11. U.S. EPA Contract Laboratory Program (CLP), Gulf South Environmental Labs (organic analyses), and Skinner and Sherman, Inc. (inorganic analyses), EPA Case No. 15918. Laboratory analysis for NUS Corporation Region 2 FIT Site Inspection, February 21, 1991.

12. Telecon Note: Conversation between Terry Romagna, Bureau of Planning and Standards, NJDEP, and Philip Cicolello, NUS Corporation, October 9, 1990.

13. PHASE I Remedial Investigation Report, Rockaway Township well field site, Morris County, New Jersey, Volume 1-Main Text, ICF/SRW Associates, Inc., November 1988.

14. Sampling and Analysis Plan, Ivex Corporation, Rockaway Township, New Jersey, J.M. Sorge, Inc., November 1989.

15. Four Mile Vicinity Map based on U.S. Department of the Interior, Geological Survey, Topographic Maps, 7.5 minute series, "Boonton, NJ" Quadrangle, 1954; "Dover, NJ" Quadrangle, 1954; "Mendham, NJ" Quadrangle, 1954; and "Morristown, NJ" Quadrangle, 1954. All maps photo revised 1981.

16. U.S.G.S. well inventory, wells >75 gpm, Morris County, United States Geological Survey, Trenton, New Jersey, January 1986.

REFERENCES (CONTD)

17. Telecon Note: Conversation between the receptionist, Rockaway Township Municipal Building, and Steve Okulewicz, NUS Corporation, February 27, 1990.

18. Telecon Note: Conversation between Joe Lowell, Denville Township Water Department, and Dennis Foerter, NUS Corporation, March 23, 1989.

19. Telecon Note: Conversation between Mr. Yardley, Denville Health Department, and Michael Schweitzer, NUS Corporation, January 30, 1991.

20. Telecon Note: Conversation between Ann James, Rockaway Boro Water Department, and Valerie Mathers, NUS Corporation, February 28, 1989.

21. Telecon Note: Conversation between Tom Kenny, Morris County Planning Board, and Jess Tecson, NUS Corporation, May 14, 1991.

22. Federal Emergency Management Agency, Flood Insurance Rate Map (FIRM), Borough of Rockaway, Morris County, New Jersey, Community Panel No. 345315 0004 B, November 15, 1979.

23. Hershfield, B.M. Rainfall Frequency Atlas of the United States, U.S. Weather Bureau, Technical Paper No. 40, 1961.

24. Telecon Note: Conversation between K. Liu, Chief Engineer, Jersey City Water Department, and Jess Tecson, NUS Corporation, May 14, 1991.

25. Telecon Note: Conversation between Don Tironi, Rockaway Township Water Department, and Ed Knyfd, NUS Corporation, March 20, 1989.

26. NJDEP, Surface Water Quality Standards, NJAC 7:9-41 et seq., May 1985, NJAC 7:9-4, Index D, May 1985.

27. Atlas of National wetlands inventory maps for New Jersey, U.S. Department of the Interior, Fish and Wildlife Service, Region Five, Newton Corner, Massachusetts, 1984.

28. Telecon Note: Conversation between Gerald F. Jones, Jr., President, Jerry Jones Mack Truck, Inc., and Jess Tecson, NUS Corporation, May 8, 1991.

29. General Sciences Corporation, Graphical Exposure Modeling System (GEMS), Landover, Maryland, 1986.

REFERENCE NO. 1

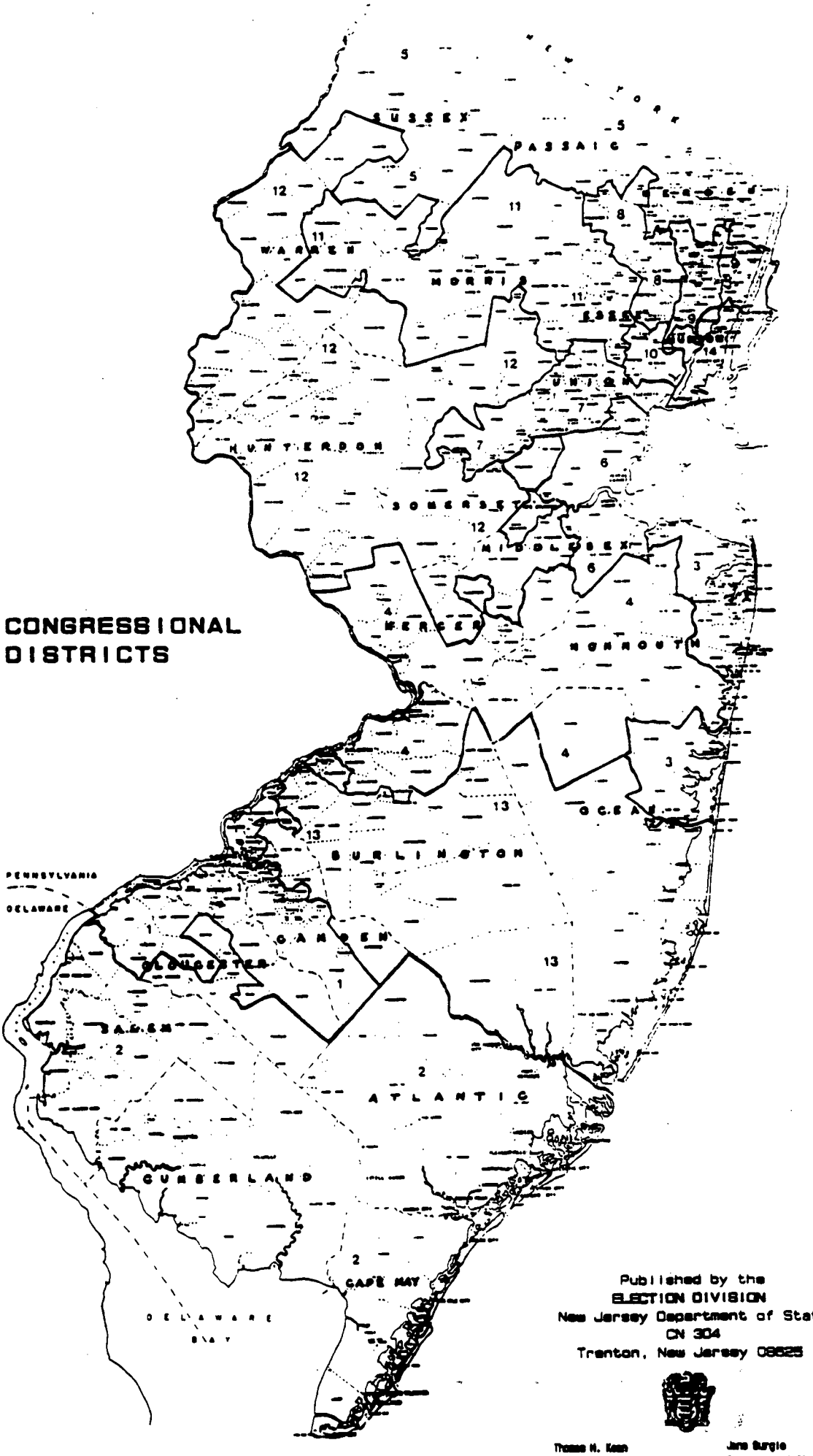
EPA ID NO.	SITE NAME / STREET / CITY / COUNTY CODE AND NAME	STATE ZIP / CONG DIST.	NFA. FLAG	OPRBLE UNIT	EVENT TYPE	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVENT LEAD
NJD010964294	JAY SCOTT OPERATION/COLT INDUSTRIES		NFA	00	DS1		10/01/89	EPA (FUND)
	JAY SCOTT OPERATION 35 MARKET				PA1		06/21/90	EPA (FUND)
	ELMWOOD PARK	NJ 07407						
	003 BERGEN							
NJD980769434	JEM LANDFILL		NFA	00	DS1		04/10/84	STATE(FUND)
	HICKSTOWN ROAD				PA1		09/01/84	STATE(FUND)
	DEPTFORD TWP	NJ 08096						
	015 GLOUCESTER							
NJD002452563	JENSON & MITCHELL INC		NFA	00	DS1		06/01/81	EPA (FUND)
	477 STRAIGHT ST				PA1	07/01/84	09/01/84	EPA (FUND)
	PATERSON	NJ 07501						
	031 PASSAIC							
NJD008912917	JENSON & MITCHELL INC		NFA	00	DS1		06/01/81	EPA (FUND)
	400 NEW ST				PA1		08/25/87	EPA (FUND)
	NEWARK	NJ 07103						
	013 ESSEX							
NJD078593894	JERRY JONES MACK TRUCK			00	DS1		04/10/84	STATE(FUND)
	GREEN POND RD				PA1	05/01/85	05/31/85	STATE(FUND)
	ROCKAWAY	NJ 07866						
	027 MORRIS							
NJD980766752	JERSEY CITY CHROMIUM WASTE SITE			00	DS1		12/01/83	EPA (FUND)
	124-124A WOODLAWN AVE				PA1		12/01/83	EPA (FUND)
	JERSEY CITY	NJ 07302			PA2	06/23/88	06/30/88	STATE(FUND)
	017 HUDSON				SI1	05/01/89	07/06/89	STATE(FUND)
NJD980766737	JERSEY CITY CHROMIUM WASTE SITE			00	DS1		12/01/83	EPA (FUND)
	223-225 GRAND ST				PA1		12/01/83	EPA (FUND)
	JERSEY CITY	NJ 07302			PA2	06/23/88	06/30/88	STATE(FUND)
	017 HUDSON				SI1	05/01/89	07/06/89	STATE(FUND)
NJD980766729	JERSEY CITY CHROMIUM WASTE SITE			00	DS1		12/01/83	EPA (FUND)
	237 GRAND ST				PA1		12/01/83	EPA (FUND)
	JERSEY CITY	NJ 07302			PA2	06/23/88	06/30/88	STATE(FUND)
	017 HUDSON				SI1	05/01/89	07/06/89	STATE(FUND)

REGION: 02

EPA ID	SITE/ALIAS NAME STREET CITY COUNTY NAME	STATE COUNTY	ZIP CODE	ALIAS SEQ. #	NAME SOURCE	FED FAC
NJD981877640 (CONTINUED)	JAM			01		
	KEARNY DRUM DUMP(NJD980770077) BELLEVILLE TPKE KEARNY	NJ	07032	02		
NJD010964294	JAY SCOTT OPERATION/COLT INDUSTRIES JAY SCOTT OPERATION 35 MARKET ELMWOOD PARK BERGEN	NJ 003	07407			D
	JAY SCOTT OPERATION/COLT INDUSTRIES BERGEN	NJ		01		
NJD980769434	JEM LANDFILL HICKSTOWN ROAD DEPTFORD TWP GLOUCESTER	NJ 015	08096		EPA	N
NJD002452563	JENSON & MITCHELL INC 477 STRAIGHT ST PATERSON PASSAIC	NJ 031	07501		EPA	N
NJD008912917	JENSON & MITCHELL INC 400 NEW ST NEWARK ESSEX	NJ 013	07103		EPA	N
NJD078593894	JERRY JONES MACK TRUCK GREEN POND RD ROCKAWAY MORRIS	NJ 027	07866		EPA	N
NJD980766752	JERSEY CITY CHROMIUM WASTE SITE 124-124A WOODLAWN AVE JERSEY CITY HUDSON	NJ 017	07302		EPA	N
	WOODLAWN AVE CHROMIUM SITE			01		

REFERENCE NO. 2

CONGRESSIONAL DISTRICTS



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ELECTION DIVISION
New Jersey Department of State
CN 304
Trenton, New Jersey 08625

Thomas H. Kean
Governor

Jane Burgio
Secretary of State

CONGRESSIONAL DISTRICTS

DISTRICT ONE: Part of Burlington County (Eagle Shade Twp., Palmyra Borough, Riverton Borough), Part of Camden County (Audubon Park Borough, Barrington Borough, Bellmawr Borough, Berlin Borough, Berlin Twp., Brooklawn Borough, Camden City, Chesilhurst Borough, Clementon Borough, Collingswood Borough, Gibbsboro Borough, Gloucester City, Gloucester Twp., Haddon Twp., Hi-Nella Borough, Laurel Springs Borough, Lawnside Borough, Lindenwold Borough, Magnolia Borough, Mount Ephraim Borough, Oaklyn Borough, Pennsauken Twp., Pine Hill Borough, Pine Valley Borough, Runnemede Borough, Somerdale Borough, Stratford Borough, Tavistock Borough, Winslow Twp. and Woodlynne Borough), and Part of Gloucester County (Clayton Borough, Deptford Twp., East Greenwich Twp., Greenwich Twp., Harrison Twp., Logan Twp., Monroe Twp., National Park Borough, Paulsboro Borough, Swedesboro Borough, Washington Twp., Wenonah Borough, West Deptford Twp., Westville Borough, Woodbury City, Woodbury Hts. Borough and Woolwich Twp.).

DISTRICT TWO: Atlantic County, Cape May County, Cumberland County, Salem County and Part of Gloucester County (Elk Twp., Franklin Twp., Glassboro Borough, Mantua Twp., Newfield Borough, Pitman Borough and South Harrison Twp.).

DISTRICT THREE: Part Of Monmouth County (Allenhurst Borough, Asbury Park City, Atlantic Highlands, Borough, Avon-by-the-Sea Borough, Belmar Borough, Bradley Beach Borough, Deal Borough, Eatontown Borough, Fair Haven Borough, Hazlet Twp., Highlands Borough, Interlaken Borough, Keansburg Borough, Keyport Borough, Little Silver Borough, Loch Arbour Village, Long Branch City, Manasquan Borough, Middletown Twp., Monmouth Beach Boro, Neptune City Borough, Neptune Twp., Oceanport Borough, Ocean Twp., Red Bank Borough, Rumson Borough, Sea Bright Borough, Sea Girt Borough, Shrewsbury Borough, Shrewsbury Twp., Spring Lake Borough, Spring Lake Heights Borough, South Belmar Borough, Tinton Falls Borough, Union Beach Borough and West Long Branch Borough) and Part of Ocean County (Bay Head Borough, Brick Twp., Dover Twp., Island Heights Borough, Lakewood Twp., Lavallette Borough, Mantoloking Borough, Point Pleasant Beach Borough, Point Pleasant Borough, Seaside Heights Borough and South Toms River Borough).

DISTRICT FOUR: Part of Burlington County (Bordentown City, Bordentown Twp., Burlington City, Burlington Twp., Chesterfield Twp., Eastampton Twp., Fieldsboro Borough, Florence Twp., Mansfield Twp., Springfield Twp. and Westampton Twp.) Part of Mercer County (East Windsor Twp., Ewing Twp., Hamilton Twp., Hightstown Borough, Hopewell Borough, Hopewell Twp., Lawrence Twp., Pennington Borough, Trenton City and Washington Twp.), Part of Middlesex County (Jamesburg Borough, Monroe Twp. and Plainsboro Twp.), Part of Monmouth County (Allentown Borough, Brielle Borough, Colts Neck Twp., Englishtown Borough, Farmingdale Borough, Freehold Borough, Freehold Twp., Holmdel Twp., Howell Twp., Manalapan Twp., Marlboro Twp., Millstone Twp., Roosevelt Borough, Upper Freehold Twp. and Wall Twp.), and Part of Ocean County (Jackson Twp.).

DISTRICT FIVE: Part of Bergen County (Allendale Borough, Alpine Borough, Bergenfield Borough, Closter Borough, Cresskill Borough, Demarest Borough, Dumont Borough, Emerson Borough, Glen Rock Borough, Harrington Park Borough, Haworth Borough, Hillsdale Borough, Ho-Ho-Kus Borough, Mahwah Twp., Midland Park Borough, Montvale Borough, Northvale Borough, Norwood Borough, Oakland Borough, Old Tappan Borough, Oradell Borough, Paramus Borough, Park Ridge Borough, Ramsey Borough, Ridgewood Village, River Vale Twp., Rochelle Park Twp., Rockleigh Borough, Saddle River Borough, Tenafly Borough, Upper Saddle River Borough, Waldwick Borough, Washington Twp., Westwood Borough, Woodcliff Lake Borough and Wyckoff Twp.), Part of Passaic County (Bloomingdale Borough, Haledon Borough, Hawthorne Borough, North Haledon Borough, Ringwood Borough, Wanaque Borough and West Milford Twp.), and Part of Sussex County (Andover Borough, Andover Twp., Branchville Borough, Frankford Twp., Franklin Borough, Fredon Twp., Hamburg Borough, Hardyston Twp., Hopatcong Borough, Lafayette Twp., Montague Twp., Newton Town, Ogdensburg Borough, Sandyston Twp., Sparta Twp., Stanhope Borough, Sussex Borough, Vernon Twp., Walpack Twp. and Wantage Twp.).

DISTRICT SIX: Part of Middlesex County (Carteret Borough, Edison Twp., Highland Park Borough, Metuchen Borough, New Brunswick City, North Brunswick Twp., Old Bridge Twp., Perth Amboy City, Sayreville Borough, South Amboy City, South River Borough and Woodbridge Twp.), Part of Monmouth County (Aberdeen Twp. and Matawan Borough), and Part of Union County (Linden City, Rahway City and Roselle Borough).

DISTRICT SEVEN: Part of Essex County (Millburn Twp.), Part of Middlesex County (Dunellen Borough and Middlesex Borough), Part of Somerset County (Bound Brook Borough, Bridgewater Twp., Green Brook Twp., Manville Borough, North Plainfield Borough, Warren Twp. and Watchung Borough) and Part of Union County (Berkeley Heights Twp., Clark Twp., Cranford Twp., Elizabeth City, Fanwood Borough, Garwood Borough, Kenilworth Borough, Mountainside Borough, New Providence Borough, Plainfield City, Roselle Park Borough, Scotch Plains Twp., Springfield Twp., Summit City, Union Twp., Westfield Town and Winfield Twp.).

DISTRICT EIGHT: Part of Bergen County (Franklin Lakes Borough), Part of Essex County (Part of Belleville Town, Bloomfield Town, Glen Ridge Borough, Montclair Town and Nutley Town), Part of Morris County (Riverdale Borough) and Part of Passaic County (Clifton City, Little Falls Twp., Passaic City, Paterson City, Pompton Lakes Borough, Prospect Park Borough, Totowa Borough, Wayne Twp. and West Paterson Borough).

DISTRICT NINE: Part of Bergen County (Bogota Borough, Carlstadt Borough, Cliffside Park Borough, East Rutherford Borough, Edgewater Borough, Elmwood Park Borough, Englewood City, Englewood Cliffs Borough, Fair Lawn Borough, Fairview Borough, Fort Lee Borough, Garfield City, Hackensack City, Hasbrouck Heights Borough, Leonia Borough, Little Ferry Borough, Lodi Borough, Lyndhurst Twp., Maywood Borough, Moonachie Borough, New Milford Borough, North Arlington Borough, Palisades Park Borough, Ridgefield Borough, Ridgefield Park Village, River Edge Borough, Rutherford Borough, Saddle Brook Twp., South Hackensack Twp., Teaneck Twp., Tenafly Borough, Wallington Borough and Wood-Ridge Borough) and Part of Hudson County (East Newark Borough, Part of Kearny Town, and Secaucus Town).

DISTRICT TEN: Part of Essex County (Part of Belleville Town, East Orange City, Irvington Town, Newark City and Orange City) and Part of Union County (Hillside Township).

DISTRICT ELEVEN: Part of Essex County (Caldwell Borough, Cedar Grove Twp., Essex Fells Borough, Fairfield Borough, Livingston Twp., Maplewood Twp., North Caldwell Borough, Roseland Borough, South Orange Village, Verona Borough, West Caldwell Borough and West Orange Town), Part of Morris County (Boonton Town, Boonton Twp., Butler Borough, Chatham Borough, Chester Borough, Chester Twp., Denville Twp., Dover Town, East Hanover Twp., Florham Park Borough, Hanover Twp., Jefferson Twp., Kinnelon Borough, Lincoln Park Borough, Madison Borough, Mendham Borough, Mendham Twp., Mine Hill Twp., Montville Twp., Mountain Lakes Borough, Mount Arlington Borough, Mount Olive Twp., Netcong Borough, Parsippany-Troy Hills Twp., Pequannock Twp., Randolph Twp., Rockaway Borough, Rockaway Twp., Roxbury Twp., Victory Gardens Borough and Wharton Borough), Part of Sussex County (Byram Twp. and Green Twp.) and Part of Warren County (Allamuchy Twp., Frelinghuysen Twp., Independence Twp. and Liberty Twp.).

DISTRICT TWELVE: Hunterdon County, Part of Mercer County (Princeton Borough, Princeton Twp. and West Windsor Twp.) Part of Middlesex County (Cranbury Twp., East Brunswick Twp., Helmetta Borough, Milltown Borough, Piscataway Twp., South Brunswick Twp., South Plainfield Borough and Spotswood Borough), Part of Morris County (Chatham Twp., Harding Twp., Morris Plains Borough, Morristown Town, Morris Twp., Passaic Twp. and Washington Twp.), Part of Somerset County (Bedminster Twp., Bernards Twp., Bernardsville Borough, Branchburg Twp., Far Hills Borough, Franklin Twp., Hillsborough Twp., Millstone Borough, Montgomery Twp., Peapack-Gladstone Borough, Raritan Borough, Rocky Hill Borough, Somerville Borough and South Bound Brook Borough), Part of Sussex County (Hampton Twp. and Stillwater Twp.) and Part of Warren County (Alpha Borough, Belvidere Town, Blairstown Twp., Franklin Twp., Greenwich Twp., Hackettstown Town, Hardwick Twp., Harmony Twp., Hope Twp., Knowlton Twp., Lopatcong Twp., Mansfield Twp., Oxford Twp., Pahequarry Twp., Phillipsburg Town, Pohatcong Twp., Washington Borough, Washington Twp. and White Twp.).

DISTRICT THIRTEEN: Part of Burlington County (Bass River Twp., Beverly City, Cinnaminson Twp., Delanco Twp., Delran Twp., Edgewater Park Twp., Evesham Twp., Hainesport Twp., Lumberton Twp., Medford Lakes Borough, Medford Twp., Moorestown Twp., Mount Holly Twp., Mount Laurel Twp., New Hanover Twp., North Hanover Twp., Pemberton Borough, Pemberton Twp., Riverside Twp., Shamong Twp., Southampton Twp., Tabernacle Twp., Washington Twp., Willingboro Twp., Woodland Twp. and Wrightstown Borough), Part of Camden County (Audubon Borough, Cherry Hill Twp., Haddonfield Borough, Haddon Heights Borough, Merchantville Borough, Voorhees Twp. and Waterford Twp.) and Part of Ocean County (Barnegat Light Borough, Barnegat Twp., Beach Haven Borough, Beachwood Borough, Berkeley Twp., Eagleswood Twp., Harvey Cedars Borough, Lacey Twp., Lakehurst Borough, Little Egg Harbor Twp., Long Beach Twp., Manchester Twp., Ocean Gate Borough, Ocean Township, Pine Beach Borough, Plumstead Twp., Seaside Park Borough, Ship Bottom Borough, Stafford Twp., Surf City Borough and Tuckerton Borough).

DISTRICT FOURTEEN: Part of Hudson County (Bayonne City, Guttenberg Town, Harrison Town, Hoboken City, Jersey City, Part of Kearny Town, North Bergen Twp., Union City, Weehawken Twp. and West New York Town).

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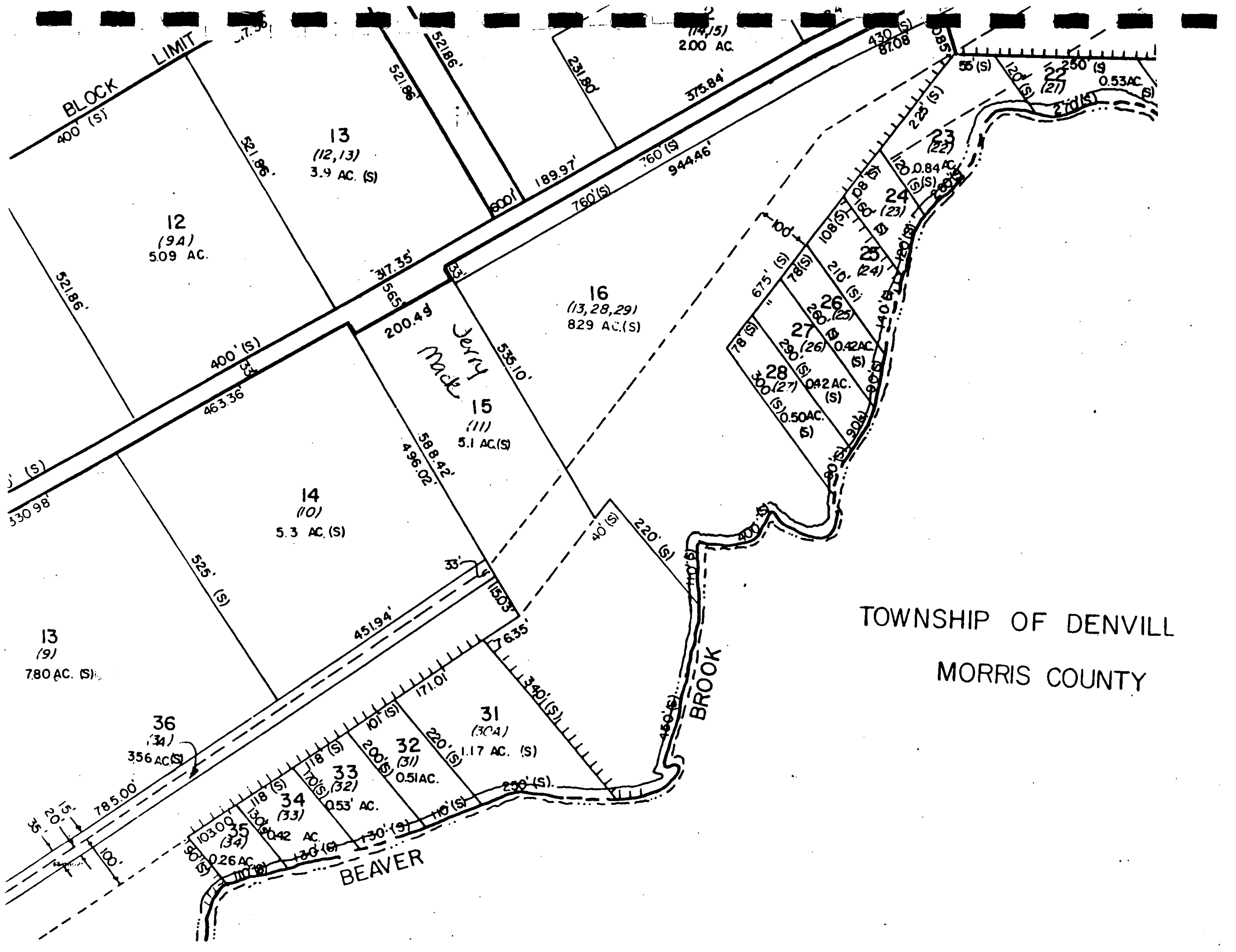
CN 303 Trenton, New Jersey 08625

January 1987

REFERENCE NO. 3


TOWNSHIP OF DENVILL
MORRIS COUNTY
BLOCK LIMIT
BEAVER
BROOK
12
(9A)
5.09 AC.
13
(12,13)
3.9 AC. (S)
13
(9)
7.80 AC. (S)
14
(10)
5.3 AC. (S)
15
(11)
5.1 AC.(S)
16
(13,28,29)
829 AC.(S)
22
(21)
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23
(22)
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24
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25
(24)
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(25)
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27
(26)
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28
(27)
0.50AC.
31
(30A)
1.17 AC. (S)
32
(31)
0.51AC.
33
(32)
0.53' AC.
34
(33)
0.42 AC.
35
(34)
0.26 AC.
36
(34)
3.56 AC.(S)
(14,15)
2.00 AC.
Jerry Mack

REFERENCE NO. 4

MALCOLM PIRNIE

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

Site Name	Site ID Number
Jerry Jones Mack	142
Address	**City, State**
Green Pond Road	Rockaway, Morris Co., NJ

Date of Off-Site Reconnaissance February 14, 1985

SITE DESCRIPTION

This facility manufactures, services, and sells trucks. Raw materials include antifreeze, engine and transmission oils, and lubricants. Waste oils and discharges are collected in storage tanks. Leakage from the in-ground waste oil tank resulted in soil contamination. The contaminated soil was removed in 1981. On-site housekeeping problems have allowed unpermitted discharges to groundwater, resulting in contamination by organics. An NJDEP memo dated 1/8/85 (Attachment A) recommends that a more extensive hydrogeological investigation be undertaken.

PRIORITY FOR FURTHER ACTION: High ___ Medium X Low ___ None ___

RECOMMENDATIONS

An on-site inspection is needed to determine if well #3 has been repaired, if soils have been sampled, and if housekeeping has improved. A hydrogeologic consultant should be hired by Jerry Jones Mack to conduct groundwater pollution investigations. (Attachment A) Wells showed elevated levels of organic compounds.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE: NJ | 02 SITE NUMBER: 142

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Jerry Jones Mack	Green Pond Road				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG. DIST.
Rockaway	NJ	07866	Morris		
09 COORDINATES LATITUDE: 40 54 48.1	LONGITUDE: 74 30 05.3	BLOCK: 22103	LOT: 15		

10 DIRECTIONS TO SITE (Starting from nearest public road): Take Route 80 to exit 37, bear right to intersection of 513, turn left on Green Pond Road. Go north to Jerry Jones Mack, on right side.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)			
Gerald Jones, Jr and Sr	Green Pond Road, Route 513			
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER	
Rockaway	NJ	07866	(201)-6253330	
07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER	
			( )	

13 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: ___ MONTH DAY YEAR ☐ B. UNCONTROLLED WASTE (CERCLA 103c) DATE RECEIVED: ___ MONTH DAY YEAR ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 7/19/84 MONTH DAY YEAR ☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☒ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER _____ (Specify)

CONTRACTOR NAME (S)

02 SITE STATUS (Check one)
☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
? BEGINNING YEAR | pres ENDING YEAR ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Volatile organics were detected in ground water at levels from 50 to 2000 ppb. Base neutrals and acid extractables were detected for first time in 7/26/84. (Attachment A)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Potential exists for ground water migration to result in contamination of the Rockaway well field, located 2000 feet southwest of this site. (Attachment A)

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspection on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)		03 TELEPHONE NUMBER	
Fred Schmitt	NJDEP/BEERA		(609)-2921215	
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
P. Kotlarich		Yurasek	(201)-3277404	2/14/85 MONTH DAY YEAR

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	142

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS
- CUBIC YARDS: unknown
- NO. OF DRUMS

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☒ H. IGNITABLE
- ☒ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Dichlorobenzene	25321-22-6		2000 ✓	ppb
SOL	Hexachlorobutadiene	87-68-3		630	ppb ✓
SOL	Methylene Chloride	75-09-2		3	ppb ✓
	Carbon -				
	tetrachloride	56-23-5		4	ppb ✓
SOL	Toluene	108-88-3		15	ppb ✓
SOL	P-Xylene	1330-20-7		26	ppb
SOL	O-Xylene	1330-20-7		91	ppb ✓
OCC	Styrene	100-42-5		12	ppb ✓
SOL	1,3,5-Trimethyl-				
	benzene	108-67-8		450	ppb ✓
SOL	1,2,4-Trimethyl-				
	benzene	95-63-6		400	ppb ✓
SOL	O-Dichlorobenzene	95-50-1		940	ppb
SOL	N-Butylbenzene	104-51-8		176	ppb ✓
SOL	1,2,4-Trichloro-				
	benzene	120-82-1		518	ppb ✓ -
	Attachment C				

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

NJDEP/DWR (Geo) Files: Attachments A and C

EPA FORM 2070-12(7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE: NJ	02 SITE NUMBER: 142

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION
02 [X] OBSERVED (DATE: 1/8/85) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
Ground water is highly contaminated by base neutral and volatile organics. (Attachment A)

01 [X] B. SURFACE WATER CONTAMINATION
02 [X] OBSERVED (DATE: 1/8/85) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
NJDEP memo refers to surface water runoff collecting near well #3. There is potential for a hydraulic connection to nearby surface waters. (Attachment A)

01 [ ] C. CONTAMINATION OF AIR
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 [ ] E. DIRECT CONTACT
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 [X] F. CONTAMINATION OF SOIL
02 [X] OBSERVED (DATE: 3/81) [ ] POTENTIAL [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
04 NARRATIVE DESCRIPTION
Leaking waste oil tank contaminated soils. Approximately 50 cubic yards of soil was removed from the northeastern border of the site. (Attachment A)

01 [X] G. DRINKING WATER CONTAMINATION
02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
A potential exists. The Rockaway well field is 2000 feet southwest of the site. The ground water reportly flows in a easterly direction. (Attachment A)

01 [ ] H. WORKER EXPOSURE/INJURY
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 [ ] I. POPULATION EXPOSURE/INJURY
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: NJ | 02 SITE NUMBER: 142

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums)
02 ☒ OBSERVED (DATE: 3/81) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
Leaking in-ground tank has contaminated surrounding soils. (Attachment A)

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
02 ☒ OBSERVED (DATE: 3/81) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Leaking in-ground tank has contaminated surrounding soils. (Attachment A)

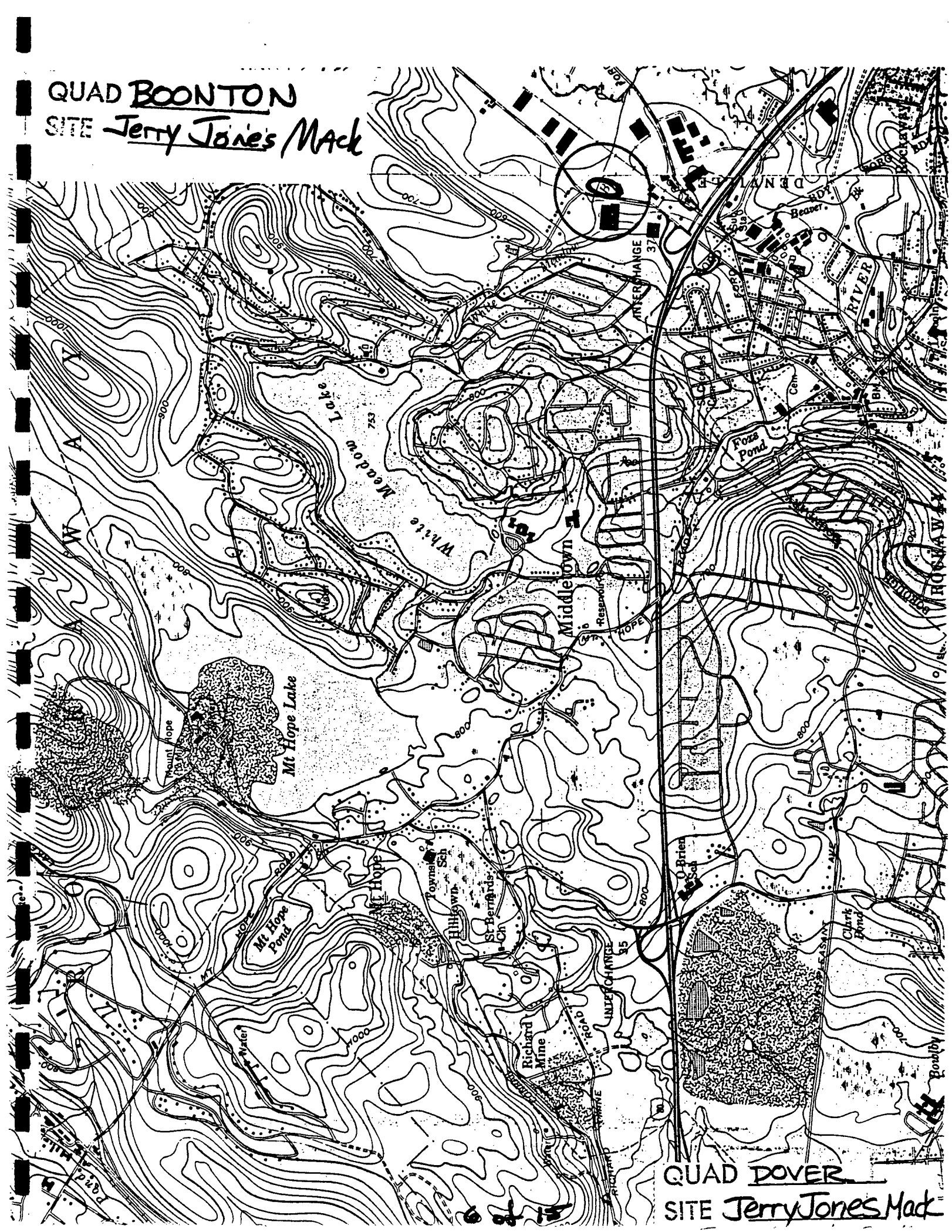
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS
The area is considered rural.

V. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)
NJDEP/DWR (Geo) Files: Attachments A thru C

EPA FORM 2070-12 (7-81)


QUAD BOONTON
SITE Jerry Jones Mack
Middletown
White Meadow Lake
Mt Hope Lake
Mt Hope Pond
Foxs Pond
Clark Pond
Richard Mine
INTERCHANGE
QUAD DOVER
SITE Jerry Jones Mack
6 of 15

State of New Jersey

JOHN W. GASTON JR., P.E.
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
TRENTON, NEW JERSEY 08625

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

JAN 8 1985

M E M O R A N D U M

TO: Joseph Mikulka, Chief, Northern Region Enforcement Element

FROM: Lisa Mirmanesh through William F. Althoff, Chief, Bureau of Ground Water Pollution Analysis

SUBJECT: Jerry Jones Mack - Rockaway Township, Morris County - Need for Hydrogeologic Investigation

Background

Jerry Jones Mack is located on Green Pond Road in Rockaway Township. The Company manufactures trucks; (body attachments, wheels, stripping, name decals) as well as services and sells trucks. Raw materials on site include antifreeze, engine and transmission oils and lubricants. Site inspection revealed an in ground 275-gallon tank used to collect waste oil on site. It was reported to be pumped every two to three weeks. There are also two 1000 gallon tanks on site. One tank collects discharges from the floor drainage system and the other collects the steam cleaning waste. The company reports that they have ceased the steam cleaning operations approximately six months ago. It is unknown if the tank has been pumped.

Three two-inch monitor wells were installed on site in January 1981 by Moretrench American Corporation. The wells have twenty feet of screen and range in depth from 25 to 30 feet. Monitor wells were surveyed for elevation by Couvrette Associates. It should be noted that the reference point utilized for elevations is unclear.

In March 1981, approximately 50 yd of oil contaminated soil was removed from the northeastern border of the site due to over pumping and discharging the contents from the 1000 gallon waste oil tank onto the ground. Contaminated soil was removed and properly disposed of by Advanced Environmental Technology.

ATTACHMENT A

NJDEP has sampled the three monitor wells four times since installation for COD, MBAS, petroleum hydrocarbons, volatile organics, base neutrals and acid extractables. All wells showed elevated levels of all parameters. Monitor well three was the most highly contaminated with total volatile organics ranging from 50-5265 ppb. Base neutrals and acid extractables were detected for the first time during the July 1984 sampling in all monitor wells.

Site Inspections

Two site investigations conducted in 1984 revealed that serious housekeeping problems exist on the site resulting in unpermitted discharges to the ground water.

Surface water runoff and oil was noted draining from the garage area across the driveway toward the eastern and northern portions of the site and directly into well three (3). Some of the runoff was white in color and may be a detergent. Much of the surface water runoff collects near monitor well (3) three; three inches of standing water was noted there on 7/19/84.

Many engine and other automotive parts were lying uncovered on the ground outside of the garage. At the southern end of the garage, at least fifty, 55-gallon drums were stored upright on the driveway containing antifreeze, lubricants and oils.

Monitor well (3) three is in need of repair. The well casing has been sheared off and no protective cap or manhole cover was on the well head. It apparently had been destroyed in a truck accident. A company representative had stuffed a plastic sheet into the well to act as a shield cover and a makeshift metal cover had been placed over the well head. A strong petroleum odor was noted when the well was sampled.

Hydrogeology

The Jerry Jones site is underlain by glacially derived soils consisting of silt and sand deposits. These stratified outwash deposits recharge the buried valley aquifer which serves as the major public potable supply in the area. The Jerry Jones site is located 2000 feet northeast of the Rockaway well field. The glacial soils are underlain with Precambrian gneiss bedrock. Water level measurements indicate ground water flow is easterly toward Beaver Brook. Ground water beneath the site occurs at depths ranging from 1 to 7 feet below ground surface.

Conclusion

Jerry Jones Mack through their plant operations and sloppy housekeeping practices have contaminated the soils and ground water beneath their site.

Recommendations

1. Jerry Jones Mack should hire a hydrogeologic consultant with experience in ground-water pollution investigations.

2. The consultant should then develop a proposal designed to investigate the extent of soil and ground water contamination at the site. The proposal along with a time schedule for implementation should be submitted to NJDEP for approval and should contain at a minimum the following:

   a. Repair or replacement of monitor wells one (1) and three (3).

   b. Elevations of the top of each monitor well casing surveyed by a licensed NJ Surveyor to the nearest hundredth (0.01) foot. Although monitor wells on site were previously surveyed, the reference points utilized were unclear.

   c. Soil borings, including proposed depths and locations.

   d. Soil sampling procedures to be implemented including some continuous split spoon sampling.

   e. Additional monitor wells including proposed depths, and location (must be installed according to the specifications attached.)

   f. Soil and ground- water analyses, including parameters to be tested for and the quality assurance/quality control plan.

   g. Tank testing results for the waste oil tank, and two 1000 gallon tanks on site.

   General housekeeping improvements on site including but not limited to control of all waste water generated on site except for those permitted to be discharged into the sanitary sewer.

3. After the completion of the approved investigation a report should be submitted to NJDEP containing the following:

   a. Stratigraphic logs for each soil boring and monitor well showing all strata encountered.

   b. As-built contraction diagrams for each additional monitor well installed.

   c. Elevations of the top of each well casing surveyed by a licensed N.J. Surveyor to the nearest hundredth (0.01) foot. (All monitor wells).

   d. Three months of static water level elevations measured at all monitor wells.

   e. Ground water table map(s).

   f. Tables of all soil and ground-water analytical results.

   g. An assessment of the degree and extent of soil contamination. Recommendations for soil removal.

   h. An assessment of the degree and extent (both vertically and horizontally) of ground-water contamination and the ground-water flow rate and direction(s).

   i. Recommended remedial measures designed to eliminate, decontaminate, control or otherwise mitigate ground-water pollution.

I will continue to assist as needed.

LM:clb

cc: Haig Kasabach ✓

142

JERRY JONES MACK, INC.

SALES • PARTS • SERVICE

Mercedes-Benz

Trucks

GERALD F. JONES. SR.
CHAIRMAN

GERALD F. JONES. JR.
PRESIDENT

JERRY JONES MACK. INC.
GREEN POND ROAD (RT. 513)
ROCKAWAY. N. J. 07866
(201) 625-3330

December 8, 1980

Phyllis Leuyarder
520 Speedwell Ave.
Morris Plains, N.J.

Dear Phyllis:

As per our phone conversation today, this is to confirm that the earth that we would like you to remove from our property has had common motor oil from trucks spilled on it. It contains no P.C.B.

Very truly yours,

Gerald F. Jones, Jr.
President

GFJ:sc

ATTACHMENT B

To: File

From: Steve Johnson

Subject: Sampling of 3 Observation Wells
23 February 81

This day, 23 February, Enforcement and Groundwater pumped sampled the three observation wells here. No water levels were taken before pumping because my steel tape wouldn't hold the chalk. I did not have a M-Scope in my possession.

Observation Well #1 — pumping rate - 10 gpm 30 minutes; filled 3-40 ml VO SCAN bottles with pumped water.

Observation well #2 — pumping rate - 5-8 gpm 30 minutes; filled 3-40 ml VO Scan Bottles water pumped cloudy brownish tan; pumps brown fine sand; water visibility cleared after 15-20 minutes of pumping / development.

Observation Well #3 — pumping rate - 8-10 gpm 20-25 minutes; filled 3-40 ml Bottles; water pumped at first was blackish dark with septic odor; water pumped foamed vigorously (white billowy foam) throughout pumping; much fine sand / mica pumped; sulfide odor present which may come from peat deposit at depth in well.

12 of 15

B-2

All samples taken to D.O.H Laboratory on 23 February 86

February 25, 1986

Phyllis Legendre, Advanced Environmental, called and we set up Tuesday, March 3, 1986, for soil removal at Jerry Jones Mach.

T-010

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources
WATER ANALYSIS

27
204

CHAIN OF CUSTODY

BACT. LAB NO. ____
DATE REC'D. ____
BOTTLE NO. 08634
DATE REC'D. ____
STORET ENT. ____
READ ____

USE TYPE OR PRINT
WITH BALLPOINT PEN

MUNICIPALITY ROCKAWAY TWP	COUNTY MORRIS	STREAM ROCKAWAY CRK.
FACILITY HARRY JONES	LOCATION ROCKAWAY POND RD.	
REPRESENTATIVE F.E.	TITLE —	COLL NAME MENNAL + FAMILY
REMARKS WELL # 2		

4/26/83

STATION IDENTIFICATION NUMBER: SC,

YR. MO. DAY: 830426

HOUR: 1120,

FIELD ANALYSIS

☐ Water Temp °C	P10,	
☐ D.O.-Winkler	P300,	
☐ D.O.-Probe	P299,	
☐ pH (Field)	P400,	
☐ Sample Depth-ft.	P3,	
☐ Gage Height-ft.	P65,	
☐ Spec. Cond. @ 25°C	P95,	
☐ Salinity °/00	P480,	
Tide Stage	P70211,	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fecal Coliform / Total Coliform	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Streptococci	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

Fecal coli /100 ml ☐ MPN P31615, ☐ MF P31613, ,

☐ Fecal Strept MPN/100 ml P31677, ,

☐ Tot coli MPN/100 ml P31505, ,

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) ____ SAMPLE
SEED YES ☐ NO ☐

CONC.% ____
BOD ____

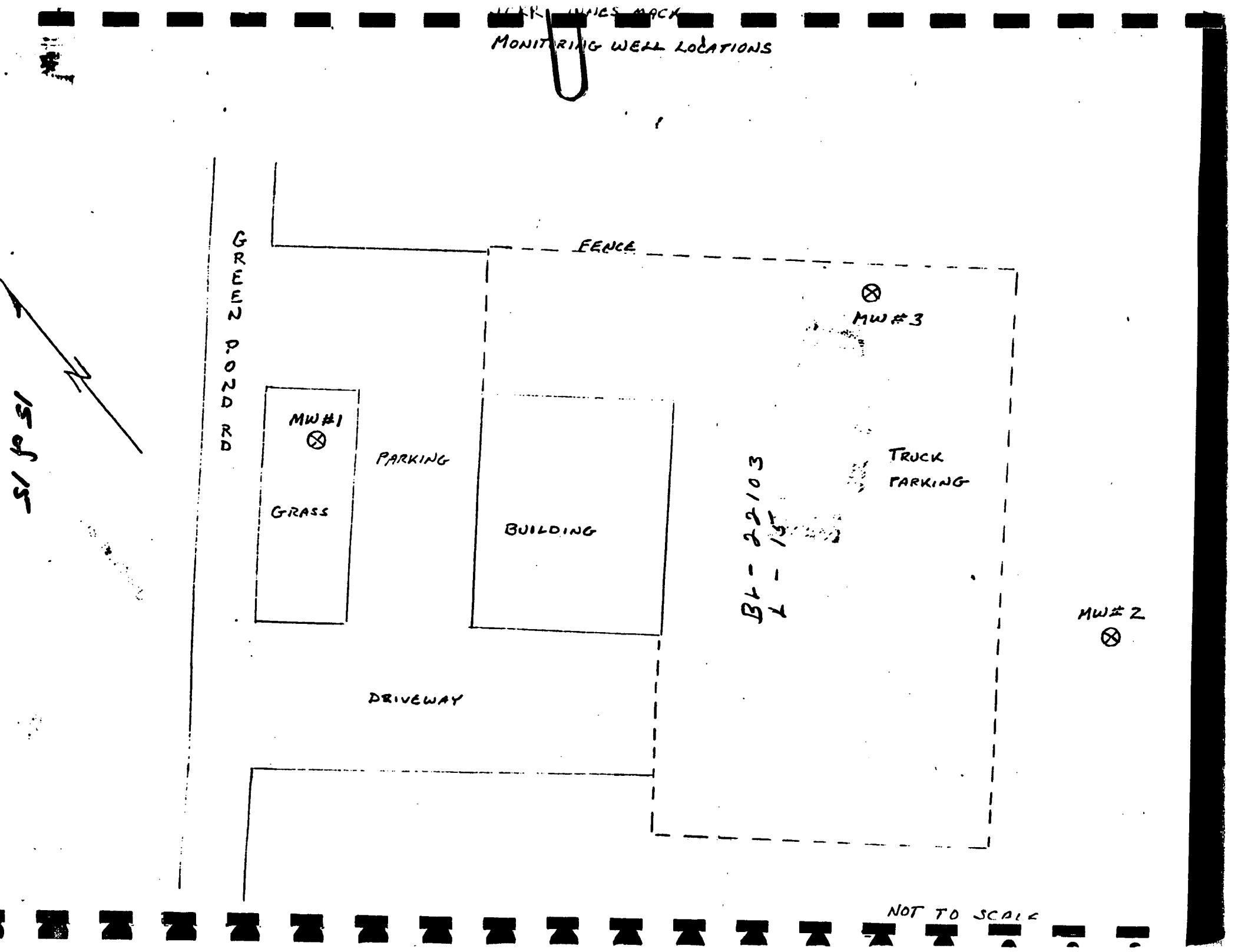
☐ BOD ☐ 5-DAY P310, ☐ 6-DAY P312, ,

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS.
☒ VO SCAN	ppb	P	,	,
☐		P	,	,
☐ METHYL CHLORIDE		P	,3	,
☐ CARBON TETRACHLORIDE		P	,4	,
☐ TOLUENE		P	,15	,
☐ p-XYLENE		P	,26	,
☐ O-XYLENE		P	,91	,
☐ STYRENE		P	,12	,
☐ 1,3,5 TRIMETHYLBENZENE		P	,450	,
☐ 1,2,4 TRIMETHYLBENZENE		P	,400	,
☐ p-DICHLOROBENZENE		P	,2000	,
☐ O-DICHLOROBENZENE		P	,940	,
☐ N-BUTYLBENZENE		P	,176	,
☐ HEXACHLOROBUTADIENE		P	,630	,
☐ 1,2,4 TRICHLOROBENZENE		P	,518	,
☐		P	,	,
☐ + 17 UNIDENTIFIED PEAKS		P	,6265	,
☐		P	,	,
☐		P	,	,
☐		P	,	,
☐		P	,	,
☐		P	,	,
☐		P	,	,
☐		P	,	,
☐		P	,	,

DATE	TIME	CHAIN OF CUSTODY FROM (NAME)	TO (NAME)
		ATTACHMENT	

Page 1 - Water Quality Inventory Copy Part 3 - Water Resources Copy (For Transm

MONITORING WELL LOCATIONS



REFERENCE NO. 5

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
TRENTON, NEW JERSEY 08625

GEORGE G. McCANN, P.E.
DIRECTOR

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

Gerald Jones
Jerry Jones Mack Trucks, Inc.
Green Pond Road
Rockaway, New Jersey 07866

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

JUL 28 1988

Dear Mr. Jones:

Re: Jerry Jones Mack Trucks, Inc.
NJPDES Permit No. NJ0066508
Effective Date:

The following represents the Department of Environmental Protection's (the Department) response to comments submitted by Storch Engineers for Jerry Jones Mack Trucks, Inc. in a letter dated February 25, 1988.

COMMENT:

1. Public Notice, pg. 1. The last sentence on the page appears to be missing a phrase or line.

RESPONSE:

The last sentence on the first page was inadvertently deleted it should have read as follows,

> "...draft document is inappropriate or that the Department's tentative decision to issue this draft permit as a final agency action is inappropriate, must raise all reasonably ascertainable issues and submit all..."

COMMENT

2. Part III - DGW, Page 2 of 5. #8 and #9. Three four inch wells were installed in 1984 by Moretrench America. At this time it will be difficult to fully complete Form A and replacing these wells would be an unnecessary expense.

RESPONSE:

The information that is required to be listed on Monitoring well certification - Form A should be available from the drillers and/or the geologist log. If this information is not available then the Department will discuss possibilities of certifying the monitoring wells without a completed Form A.

COMMENT

3. Part III - DGW, page 3 of 5. #10. The three wells have previously been sampled on five different occasions - June 6, 1985, September 26, 1985, March 31, 1986, June 4, 86 and November 4, 1987. Based on the previous results submitted to the Northern Enforcement Element, it is thought that no further monitoring should be required prior to closure of the unit. For monitoring purposes, after dry well closure, it is felt that the only parameter warranted is Volatile Organics.

RESPONSE:

The Department is aware of the past sampling at the facility and has narrowed the scope of the monitoring program taking into account the past sampling results. The intent of this permit is to monitor the entire closure and post-closure period, this includes the sampling prior to dry well removal. However, the sampling months have been adjusted to allow approximately 5 months between the effective date of the permit and the initial ground water sampling. If the compliance schedule is followed, the dry well should be removed prior to the first sampling date.

After a year of post closure monitoring, Jerry Jones Mack Trucks, Inc. may petition the Department to relax or terminate the requirements of the NJPDES/DGW permit, as per N.J.A.C. 7:14-6.1 (a)3.

COMMENT

4. Part IV - DGW, page 1 of 1. Special Condition #1. The contents of the dry well have previously been sampled and the 2000 gallons of liquid have been removed and disposed of as combustible liquid. We are of the opinion that additional sampling is not necessary.

RESPONSE:

It has been noted that the contents of the dry well have been removed and disposed of properly. Special Condition #1 addresses the possibility that liquids or solids are still remaining in the dry well, if no liquid or sludge exists then no sampling will be required.

COMMENT

5. Part IV - DGW, page 1 of 1. Special Condition #2. As stated above, Jerry Jones Mack Trucks, Inc. submitted a closure plan to the Bureau of Ground Water Quality Management dated April 17,1987 along with a CP-1 form for review and approval. No response from the Bureau has been received to date. We feel submission of another closure plan is not necessary. In addition, in this section of draft permit the dry well was incorrectly called a cesspool.

RESPONSE:

The closure plan that was received by the Bureau did not address

the final closure of the dry well. The plan discusses preliminary plans for dry well closure but does not address the actual implementation of any closure activity. It may be appropriate to supplement the plan with specific procedures for closure (i.e. location and depth of soil borings). If it is desirable, a meeting may be arranged with the Department to discuss any closure requirements or activities.

Identifying the dry well as a cesspool was inadvertent. Special Condition #2 has been changed to reflect this correction.

COMMENT

6. Part IV - DGW, page 1 of 1. Special Condition #3. The dry well is incorrectly called a cesspool.

RESPONSE:

As stated above, the reference to the cesspool was inadvertent. Special Condition #3 has been changed to reflect this correction.

Enclosed is the final NJPDES/Discharge to Ground Water Permit which is issued in accordance with the New Jersey Pollutant Discharge Elimination System Regulations, N.J.A.C. 7:14A-1 et seq. Violation of any condition of this permit may subject you to significant penalties.

Any request for an adjudicatory hearing to reconsider or contest the conditions of this permit must be made within 30 calendar days following your receipt of this permit. The request should be made to:

Assistant Director
NJDEP Division of Water Resources
Ground Water Quality Management Element
CN-029
Trenton, New Jersey 08625

If you have any questions on this permit action, please contact Donald Cramer of the Bureau of Ground Water Discharge Control at (609) 292-0424.

Sincerely,

Stephen W. Johnson, Chief
Bureau of Ground Water Discharge Control

GWQM234

Enclosures

FACT SHEET

For NJPDES Permit to Discharge
Into the Ground Waters of the State

NAME AND ADDRESS OF APPLICANT:

Jerry Jones Mack Trucks, Inc.
Green Pond Road
Rockaway, New Jersey 07866

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

Jerry Jones Mack Trucks, Inc.,
Green Pond Road
Rockaway, Morris County
New Jersey, 07866

RECEIVING WATER:

Ground waters of the state. The past discharge was to the Precambrian crystalline rock which is overlain by Wisconsin Age glacial drift.

DESCRIPTION OF FACILITY:

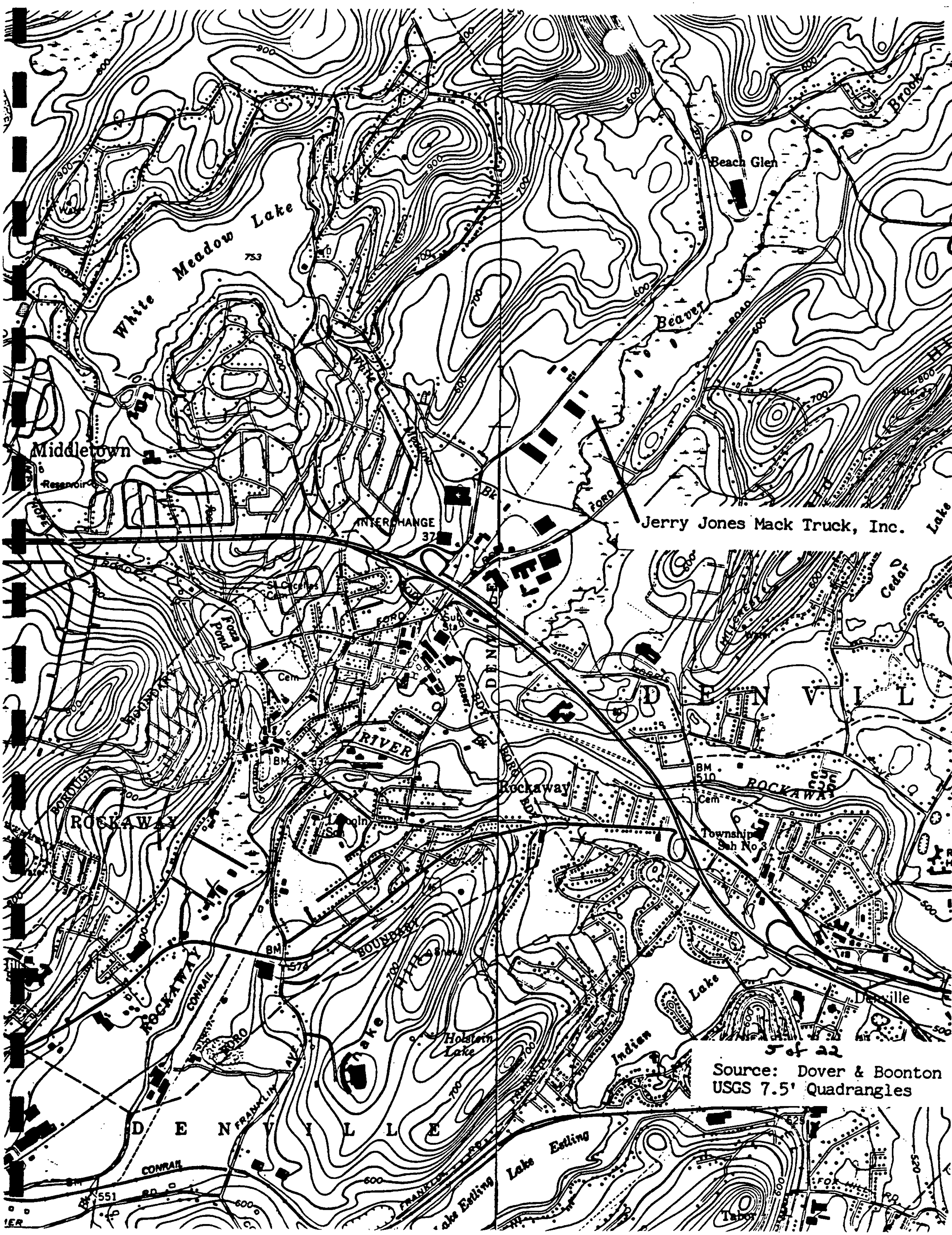
The Company manufactures trucks (body attachments wheels, stripping, name decals) as well as services and sells trucks. Raw materials on site include antifreeze, engine and transmission oils, lubricants, solvents and degreasers.

DESCRIPTION OF DISCHARGE:

The past discharges to ground water were via a dry well that received wash water from nine truck service bays. The dry well is approximately six feet in diameter and seven and a half feet deep. The dry well is no longer accepting any type of discharge and will be closed under the conditions of this permit.

PERMIT CONDITIONS:

According to the attached general and special conditions.



Source: Dover & Boonton USGS 7.5' Quadrangles

PERMIT NUMBER NJ0066508

Permittee	Co-Permittee
JERRY JONES MACK TRUCK INC GREEN POND ROAD ROCKAWAY, NJ 07866	

Property Owner	Location of Activity
JERRY JONES MACK TRUCK, INC. GREEN POND ROAD ROCKAWAY, NJ 07866	JERRY JONES MACK TRUCK INC. GREEN POND ROAD ROCKAWAY, NJ 07866

Type of Permit Covered By This Approval	Issuance Date	Effective Date	Expiration Date
K :Und.Injection (UIC) - Ind.	8/01/88	9/01/88	8/31/93

The permittee shall comply with the attached General and Special Conditions.

By Authority of:
George G. McCann, P.E.
Director
Division of Water Resources

DEP AUTHORIZATION
Arnold Schiffman
Assistant Director
Ground Water Quality Management

CHECKLIST OF PARTS AND MODULES COMPRISING THIS NJPDES PERMIT

1. Cover Page

2. Checklist

3. Part I (General Conditions for All NJPDES Discharge Permits)

4. Part II - Additional General Conditions for the types of NJPDES Permits checked as follows:

_____ Part II - A (Municipal/Sanitary)

_____ Part II - B/C (Industrial/Commercial/Thermal)

_____ Part II - L (SIU)

_____ Part II - IWMF (Industrial Waste Management Facility)

_____ Part II - DGW Specify type(s): _____

_____

5. Part III - Effluent Limitations and Monitoring Requirements

_____ Part III - A

_____ Part III - B/C

_____ Part III - L

__X__ Part III - DGW Specify type(s): Ground Water Monitoring Requirements and Standards

_____

6. Part IV - Special Conditions

_____ Part IV - A

_____ Part IV - B/C

_____ Part IV - L

_____ Part IV - IWMF

__X__ Part IV - DGW Specify type(s): _____

_____

_____

State of New Jersey
Department of Environmental Protection
Division of Water Resources

GENERAL CONDITIONS FOR ALL NJPDES/DGW PERMITS

The New Jersey Pollutant Discharge Elimination System (NJPDES) regulations (N.J.A.C. 7:14A-1 et seq.) as authorized by the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A et seq.) identify requirements for all Discharge to Ground Water Permits. Information concerning these general permit requirements may be found in the following sections of the NJPDES regulations.

Permit Requirement	Citation
General Information	Subchapter 1
General Requirements for the NJPDES Permit	Subchapter 2
Additional Requirements for an Industrial Waste Management Facility	Subchapter 4
Additional Requirements for Underground Injection Control Program	Subchapter 5
Additional Requirements for Discharges to Ground Water (DGW)	Subchapter 6
Procedures for Decision Making	Subchapter 7
Public Comments and Public Notice	Subchapter 8
Filing Requirements for NJPDES Permits	Subchapter 10
Public Access to Information and Requirements for Departmental Determination of Confidentiality	Subchapter 11

GROUND WATER MONITORING REQUIREMENTS AND STANDARDS

1. The locations of all the ground water monitor wells required to be sampled or monitored are shown on Attachment 1.

2. The owner or operator shall inspect each ground water monitor well on a weekly basis for structural integrity and/or damage. The permittee shall maintain a complete inspection record indicating dates of inspection, inspector's name, and conditions observed. These records shall be made available to the Department upon request. Failure to maintain or submit records upon request shall be a violation of the conditions of this permit.

3. If the monitor wells are damaged or otherwise rendered inadequate for their intended purpose, the Administrator, Water Quality Management Element, shall be notified within five (5) days in writing indicating:

   (a) Which wells were damaged or rendered inadequate for their intended use;

   (b) The cause and extent of damage or the reason for the inadequacy;

   (c) If the sampling schedule as required in this permit will be violated or if the results of the sampling may reasonably become misleading;

   (d) The date that the well will again be operational. Damaged wells must be replaced or repaired within thirty (30) days after the damage has occurred. The wells must be sampled within five (5) days after they have been installed. A replacement well must meet the construction requirements established by the Department. A valid New Jersey well permit is required prior to the installation of the replacement well;

   (e) The next date that the well will be sampled; Failure to follow these procedures is a violation of this permit and may subject the permittee to the provisions of N.J.S.A. 58:10A-10.

4. Unless dedicated sampling equipment is used, the permittee shall sample the ground water monitor wells in the following order:

   1. MW-1
   2. MW-2
   3. MW-3

5. When the concentrations for any of the chemicals, chemical compounds, metals or groups of chemicals exceed the standard which has been identified for that chemical, chemical

compound, metal or group of chemicals, the permittee shall comply with the requirements of N.J.A.C. 7:14A-6.15(j), Compliance Monitoring.

6. The permittee shall complete the forms required on the "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which is included as a part of this permit. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the permit sampling requirements and may place the permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10. It shall be the permittee's sole responsibility to maintain an adequate supply of the required report forms. All monitoring reports shall be sent to:

Department of Environmental Protection
Division of Water Resources
Water Quality Management Element
Bureau of Permits Administration
CN-029
Trenton, NJ 08625

ATTN: Monitoring Well Reports

7. Satisfactory ground water wells are defined in Section 6.13 of the NJPDES regulations and shall be subject to Departmental approval. If ground water monitoring wells do not meet these standards, they must be replaced with new wells meeting Departmental standards.

8. A Ground Water Monitor Well Certification (Forms A and B) shall be completed for each existing and proposed ground water monitor well within 30 days of the installation of the ground water monitor wells. Information for each well must be shown on a separate form.

9. For an existing well, if information required on the Ground Water Monitoring Certification (Forms A and B) cannot be determined or the ground water monitoring well is not adequately constructed to meet the requirements of this permit, the Department reserves the right to require the replacement of that well. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample from the portion of the aquifer which the Department requires to be sampled. Any replacement well must be installed within a 10 foot radius of the existing well. Inadequate or damaged existing wells must be properly sealed pursuant to N.J.A.C. 58:4A-4.1. Instructions regarding sealing may be obtained by contacting the Water Allocation Office at (609) 984-6831.

10. The permittee shall sample a total of 3 ground water monitor wells according to the schedule below. All ground water elevations must be determined prior to evacuation and sampling of the wells. Sampling of the wells shall be performed according to the methodology specified in Section 6.12 of the NJPDES regulations and the latest edition of the Department's Field Procedures Manual for Water Data Acquisition.

PARAMETER	STANDARDS		SAMPLING MONTH	SAMPLE TYPE *1	REPORTING MONTH
Elevation of top of monitor well casing (to be determined once but reported as indicated)			Feb Aug	N/A	Mar Sept
Depth to Water Table from top of casing prior to sampling			Feb Aug	N/A	Mar Sept
Depth to Water Table from original ground level prior to sampling			Feb Aug	N/A	Mar Sept
Copper	1.0	ppm	Feb Aug	grab	Mar Sept
Lead & Compounds	0.05	ppm	Feb Aug	grab	Mar Sept
pH	5-9	SU	Feb Aug	grab	Mar Sept
Total Dissolved Solids (TDS)	500	ppm	Feb Aug	grab	Mar Sept
Total Volatile Organics by GC/MS	*2	ppb	Feb Aug	grab	Mar Sept
Zinc & Compounds	5	ppm	Feb Aug	grab	Mar Sept

NOTES:

*1

"Grab" means an individual sample of at least 100 milliliters collected over a period not exceeding 15 minutes.

*2

A. Volatile Organic Toxic Pollutants as defined in N.J.A.C. 7:14A -1.1 et. seq., Appendix B can be reasonably divided into two classes: (A) carcinogens and (B) non-carcinogens.

i. Any chemical demonstrated to be carcinogenic to humans or experimental animals in a test peer-reviewed by either the National Toxicology Program of the U.S. Department of Health and Human Services or the International Agency for

Research on Cancer will be considered to be a carcinogen and (NJDEP Group A).

ii. Chemicals which do not meet the criteria for placement in NJDEP Group A will be placed in NJDEP Group B. NJDEP Group B is further divided into Group B-1, chemicals for which no State or Federal maximum contaminant level (MCL) exists, and NJDEP Group B-2, chemicals for which a State or Federal MCL exists. Where both a State and Federal MCL exists, the more stringent shall apply. If any applicable State or Federal standard, limitation or prohibition is more stringent than any limitation on the pollutant then the State or Federal MCL, the more stringent shall apply. Chemicals in NJDEP Group B-1 which do not currently meet the criteria for placement in NJDEP Group B-2 shall be transferred to NJDEP Group B-2 if they meet the criteria for placement in NJDEP Group B-2 in the future. Chemicals which do not currently meet the criteria for placement in NJDEP Group A will be placed in NJDEP Group B-1 or NJDEP Group B-2 and shall be transferred to NJDEP Group A if they meet the criteria for placement in NJDEP Group A in the future.

Currently, based upon scientific consensus, the following shall comprise NJDEP Group A and NJDEP Groups B-1 and B-2:

NJDEP Group A	NJDEP Group B-1
acrylonitrile	acrolein
benzene	bromoform
carbon tetrachloride	chlorobenzene
chloroform	chlorodibromomethane
1,2-dichloroethane	chloroethane
1,1-dichloroethylene	2-chloroethylvinyl ether
methylene chloride	dichorobromomethane
1,1,2,2-tetrachloroethane	1,1-dichloroethane
tetrachloroethylene	1,2-dichloropropane
tricloroethylene	1,3-dichloropropylene
vinyl chloride	ethlybenzene
1,1,2-trichloroethane	methyl bromide
	methyl chloride
	toluene
	1,2-trans-dichloroethylene

NJDEP Group B-2	MCL* (ppb)
1,1,1-trichloroethane	200

*EPA Proposed

B. Chemical compounds classified in NJDEP Group A are carcinogens and pose some level of risk even at low doses.

C. 40 CRF Part 136-Method 624 shall be used to identify and monitor for the volatile organic compounds identified in Appendix B of the NJPDES Regulations. The GC/MS method 624 shall be utilized until the concentration of the constituents reach the corrective action criteria or the method detection limit, which ever is higher. If the method 624 method detection limit is higher than the corrective action criteria, 40 CRF Part 136 Methods 601, 602 and /or 603 shall be utilized until the mandated corrective action criteria are achieved.

Corrective Action Criteria

A. The corrective action criteria for ground water of 5 parts per billion (ppb) shall apply to individual chemical compounds classified in NJDEP Group A. Hence, the ambient concentration of any compound in NJDEP Group A shall not exceed 5 ppb in ground water.

B. The corrective action criteria for ground water of 50 ppb total Volatile Organic Toxic Pollutants shall apply to the sum of all compounds listed in NJDEP Group A and NJDEP Group B-1. Hence, the ambient concentration of the sum of all compounds listed in NJDEP Groups A and B-1 shall not exceed 50 ppb in ground water.

C. The corrective action criteria for ground water for the compounds listed in NJDEP Group B-2 shall be equal to or less than the individual State or Federal MCL, the more stringent shall apply. Hence, the ambient concentration of any compound in NJDEP Group B-2 shall not exceed it's MCL in ground water.

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Jerry Jones Mack Truck, Inc
Name of Facility: Same as Applicant
Location: Green Pond Road, Rockaway, New Jersey

NJPDES Permit No: NJ0066508

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing. ____ - ____ - ____ - ____ - ____ - ____ - ____ - ____

Owner's Well Number (As shown on the application or plans): _____

Well Completion Date: _____

Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot): _____

Total Depth of Well (one-tenth of a foot): _____

Depth to Top of Screen From Top of Casing (one-tenth of a foot): _____

Screen Length (feet): _____

Screen or Slot Size: _____

Screen Material: _____

Casing Material: (PVC, Steel or Other-Specify): _____

Casing Diameter(Inches): _____

Static Water Level From Top of Casing at The Time of Certification(one-hundredth of a foot): _____

Yield (Gallons per Minute): _____

Length or time Well Pumped or Bailed: _____ Hours _____ Minutes

Lithologic Log: ATTACH ON BACK

AUTHENTICATION:
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.

_____
Professional Engineer's Signature

_____
Professional Engineer's Name
(Please type or print)

SEAL

_____
Professional Engineer's License #

ALL EXISTING AND PROPOSED GROUND WATER MONITORING WELLS SHALL MEET THE FOLLOWING REQUIREMENTS:

A Ground Water Monitoring Well Certification Form (A and B) must be completed for each existing and proposed ground water monitoring well. Information for each well must be shown on a separate well completion form. The form entitled "Ground Water Monitoring Well Certification, Form A-As Built Construction Certification", must be signed by one of the following: a New Jersey licensed Professional Engineer; a licensed New Jersey Well Driller; a geologist certified by any State; a geologist certified by the American Institute of Professional Geologists; an individual certified by the American Institute of Hydrology; any other person approved by the Department. Form B, "Location Certification", must be signed and sealed by a Licensed New Jersey Land Surveyor. For an existing well, if information required on the well completion form cannot be determined or if the well is not adequately constructed to meet the requirements of the NJPDES Permit, the Department reserves the right to require additional replacement well(s) to be drilled. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample at any time of the year as specified within the NJPDES Permit. Any replacement well must be installed within a ten (10) foot radius of the specified sampling location. Inadequate or damaged wells must be properly sealed as per N.J.A.C. 58:4A-4.1. Instructions regarding sealing may be obtained by contacting the Water Allocation Office at (609) 984-6831.

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Jerry Jones Mack Truck, Inc.
Name of Facility: Same as Permittee
Location: Green Pond Road, Rockaway, New Jersey 07866

NJPDES Number: NJ 0066508

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): _ _-_ _ _ _ _ _-_
This number must be permanently affixed to the well casing.

Longitude (one-tenth of a second): West_____
Latitude (one-tenth of a second): North_____
Elevation of Top of Casing (cap off) (one-hundredth of a foot): _____
Owners Well Number (As shown on the application or plans): _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

_____
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

_____ SEAL
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

_____
PROFESSIONAL LAND SURVEYOR'S LICENSE #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This shall not be considered to require a major modification of the NJPDES permit.

Form T-VWX-014
5/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

MONITORING REPORT — TRANSMITTAL SHEET

NJPDES NO.	REPORTING PERIOD MO. YR.		MO. YR.
0 0 6 6 5 0 8		THRU	

PERMITTEE: Name Jerry Jones Mack Trucks, Inc.

Address Green Pond Road

Rockaway, New Jersey 07866

FACILITY: Name Same As Permittee

Address

(County) Morris

Telephone ( )

FORMS ATTACHED *(Indicate Quantity of Each)*

SLUDGE REPORTS - SANITARY

☐ T-VWX-007 ☐ T-VWX-008 ☐ T-VWX-009

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013

GROUNDWATER REPORTS

☐ 3 VWX-015(A,B) ☐ 3 VWX-016 ☐ VWX-017

NPDES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-1

OPERATING EXCEPTIONS

	YES	NO
DYE TESTING	☐	☐
TEMPORARY BYPASSING	☐	☐
DISINFECTION INTERRUPTION	☐	☐
MONITORING MALFUNCTIONS	☐	☐
UNITS OUT OF OPERATION	☐	☐
OTHER	☐	☐

(Detail any "Yes" on reverse side in appropriate space.)

***NOTE:** The "Hours Attended at Plant" on the reverse of this sheet must also be completed.*

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name *(Printed)* _____

Grade & Registry No. _____

Signature _____

Date _____

PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIVE

Name *(Printed)* _____

Title *(Printed)* _____

Signature _____

Date _____

Form VWX-015 A
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	SW ID NO.
Jerry Jones Mack Trucks, Inc.	
LAB NAME	

NJPDES NO. (1–8): R NJ 0 0 6 6 5 0 8
WELL PERMIT NO. (9–16):
SAMPLE DATE YR. | MO. | DAY (17–22):
NJ LAB CERT. NO. (23–27):
WQM USE (28):

Well #: MW-

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS												ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.					
	X						X					Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01			
	X						X					Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01			
	X						X					Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546		
	X						X					Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019		
												Arsenic, Dissolved	UG/L as As	01000		
												Barium, Dissolved	UG/L as Ba	01005		
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
												Cadmium, Dissolved	UG/L as Cd	01025		
												Chloride, Dissolved	UG/L as Cl	82295		
												Chromium, Dissolved	UG/L as Cr	01030		
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
	X						X					Copper, Dissolved	UG/L as Cu	01040		
												Cyanide, Total	MG/L as CN	00720		
												Endrin, Total	UG/L	39390		
												Fluoride, Dissolved	MG/L as F	00950		
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
												Iron, Dissolved	UG/L as Fe	01046		
	X						X					Lead, Dissolved	UG/L as Pb	01049		
												Lindane, Total	UG/L	30782		
												Manganese, Dissolved	UG/L	01056		
												Mercury, Dissolved	UG/L	71890		

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 [illegible] 67
68 72 73 79 80

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Jerry Jones Mack Trucks, Inc. | SW ID NO.

LAB NAME

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE (YR. MO. DAY)	NJ LAB CERT. NO.	WQM USE
S NJ 0066508 (cols 1, 2–8)	(cols 9–16)	(cols 17–22)	(cols 23–27)	(col 28)

Well #: MW-

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS (Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	Methoxychlor, Total	UG/L	39480		
	Methylene Blue Active Substances	MG/L	38260		
	Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
	Nitrogen, Nitrate, Dissolved	MG/L as N	00618		
	Odor	T.O.N.	00085		
X X	pH	Standard Units	00400		
	Phenols, Total Recoverable	UG/L	32730		
	Radium 226, Dissolved	Pc/L	09503		
	Radium 228, Dissolved	Pc/L	81366		
	Selenium, Dissolved	UG/L	01145		
	Silver, Dissolved	UG/L	01075		
	Sodium, Dissolved	MG/L	00930		
	Sulfate, Dissolved (as SO_4)	MG/L	00946		
X X	Total Dissolved Solids (TDS)	PPM	70300		
	Total Organic Carbon (TOC)	PPM	00680		
	Total Organic Halogen (TOX)	UG/L	70353		
	Toxaphene	UG/L	39400		
	Turbidity	NTU	00076		
X X	Zinc, Dissolved	UG/L	01090		
	2, 4–D, Total	UG/L	39370		
	2, 4, 5–TP, Total	UG/L	39045		

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Form VWX-016
4/83

NE. .RSEY DEPARTMENT OF ENVIRONMENTAL PR. .CTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME Jerry Jones Mack Trucks, Inc. | SW ID NO.

LAB NAME

T (1) NJ 0 0 6 6 5 0 8 (2–8) | NJPDES NO.

WELL PERMIT NO. (9–16)

SAMPLE DATE YR. MO. DAY (17–22)

NJ LAB CERT. NO. (23–27)

WQM USE (28)

Well #: MW-

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS												ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.					
	X						X					Acrylonitrile	UG/L	34215		
												Benzene	UG/L	34030		
												Bromoform	UG/L	32104		
												Carbon Tetrachloride	UG/L	32102		
												Chlorobenzene	UG/L	34301		
												Chlorodibromoethane	UG/L	34306		
												Chloroform	UG/L	32106		
												1, 1 - Dichloroethane	UG/L	34496		
												1, 2 - Dichloroethane	UG/L	34531		
												1, 1 - Dichloroethylene	UG/L	34501		
												1, 2 - Dichloropropane	UG/L	34541		
												Ethylbenzene	UG/L	34371		
												Methylene Chloride	UG/L	34423		
												1, 1, 2, 2 - Tetrachloroethane	UG/L	34516		
												Tetrachloroethylene	UG/L	34475		
												Toluene	UG/L	34012		
												1, 1, 1 - Trichloroethane	UG/L	34506		
												1, 1, 2 - Trichloroethane	UG/L	34511		
												Trichloroethylene	UG/L	39180		
												Vinyl Chloride	UG/L	39175		
												Acrolein	UG/L	34210		
												Chloroethane	UG/L	34311		
												2 - Chloroethylvinyl Ether	UG/L	34576		
												Dichlorobromomethane	UG/L	32105		
												1, 3 - Dichloropropylene	UG/L	34699		
												Methyl Bromide	UG/L	34413		
												Methyl Chloride	UG/L	34418		
												1, 2 - trans - Dichloroethylene	UG/L	34546		
												1, 2 Dichlorobenzene	UG/L	34536		
												1, 3 Dichlorobenzene	UG/L	34566		
												1, 4 Dichlorobenzene	UG/L	34571		

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Special Conditions for NJPDES Permit NJ0064441

1. If any liquid is remaining in the dry well, Jerry Jones Mack Trucks, Inc. shall contact the Bureau of Regulation, Classification and Technical Assistance [(609) 292-8341] within thirty (30) days of the effective date of this permit to determine the sampling requirements for the remaining liquid. All sampling shall be in accordance with those protocols established by said Bureau.

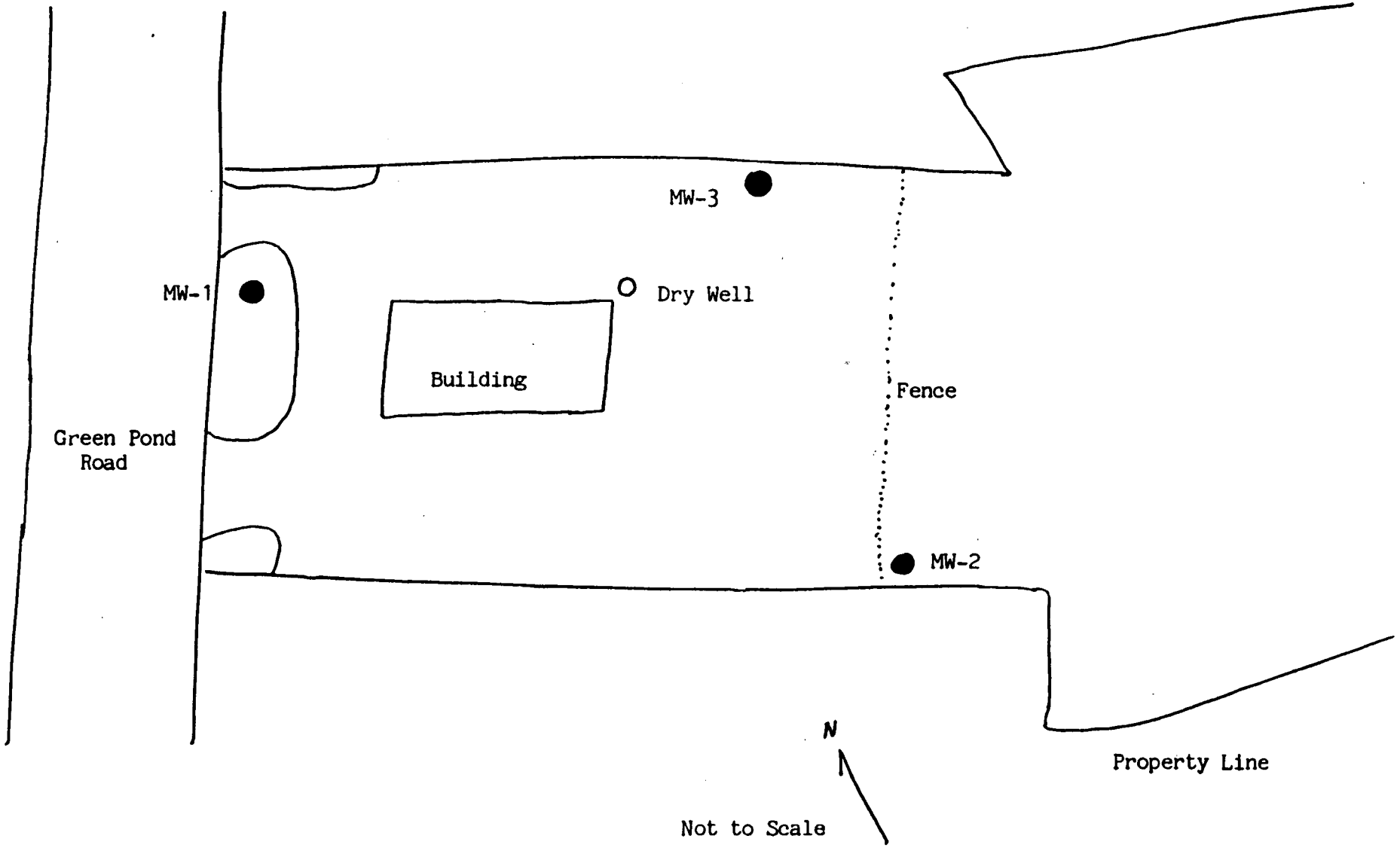
2. Within one hundred and twenty (120) days of the effective date of this permit, Jerry Jones Mack Trucks, Inc. shall submit a closure plan to the Bureau of Ground Water Quality Management for review and approval. Said plan shall include and identify all closure and post-closure activities that will be conducted prior to and subsequent to closure of the dry well and the time schedule of those activities.

   This plan shall include, at a minimum: 1] procedures for removing any remaining liquid in accordance with the classification; 2] procedures for the analysis and reporting of the soil and/or subsoil beneath the dry well; this must include the number of borings (location and depth) and analytical method of testing; 3] criteria for removal of contaminated soil; 4] method of removal and disposal of any contaminated soil or subsoil that might be excavated, including licensing information and manifests from haulers and ultimate disposal site; 5] methods for infilling or removing the foundation or base of the dry well; and 6] type and amount of cover materials and revegetation of the site.

3. Within thirty (30) days of Departmental approval of the Closure Plan, Jerry Jones Mack Trucks, Inc. shall commence with the closure of the drywell as described by the approved plan.

4. All samples shall be analyzed by a New Jersey Certified Laboratory. All soil sampling shall be performed according to the methodology as specified in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (EPA Publication SW-864). The analytical method that will be used must be stated in the closure plan.

Attachment 1. Location of monitoring wells and dry well at Jerry Jones Mack Truck, Inc.



REFERENCE NO. 6

NUS CORPORATION

II

0740

JERRY JONES MACK TRUCK
02-9101-03
TDD MANAGER - M. SCHWEITZER
LOGBOOK #0740
FEBRUARY 1, 1991

Table of Contents

Jerry Jones Mack Truck 2/5/91 02-9101-03

On-Site Reconnaissance

Date: 2/5/91

Time of Arrival: 0955

Time of Departure: 1310

NUS Personnel On-Site		Duties On-Site
Mike Schweitzer	MS 2/5/91	Site Manager
Steve Okulewicz	@ 2/5/91	Site Safety
Anthony E. Culmone Jr.	AE 2/5/91	Surveillance

Work plans and QA/QC requirements were discussed with the above-listed personnel.

Weather Conditions: Sunny, some clouds, warm, temp approximately 52°F

Site Contact:

Equipment	EPA ID Number	Background Reading
OVA G	307139	0ppm
OVA A	469758	0ppm
Mini Rad	731690	10cpm
Camera-Prints	731695	
Camera-Slides	731693	
Compass	654182	
Steve O. SCBA	192069	
Tony C "	192040	
Mike S "	307174	

Philip Cornille 2/5/91 Mike Schweitzer 2/5/91

0955 Arrive at site. Enter office to meet with Mr Jones

0958 Meet Mr. Jones. He gives me his card and tells me about facility. He says the facility was built 15 years ago. There are only two tanks on site at present. One is a 250-gallon tank which was for oil waste but is no longer used. The other tank is for fuel oil. Both tanks are in compliance because they were tested when he was going to sell the property. Mr. Jones gave me a blue-print of the property to look at. He said the property is approximately 6 acres.

1005 Mr. Jones said that there are gulleys in the service area for oil and dirt runoff. They run into the dry well (thought to be the 5,000-gallon tank). They haven't been used for 7 years - 6 to 8 years ago. He said that the waste would flow to the dry well, designed by the town engineer, and overflow because of the low water table. The overflow produced a black patch of oil waste about 3 inches thick in the center. The patch and soil was removed. Mr. Jones said they try to keep the facility as clean as possible but it is hard because of the nature of the business - cleaning trucks etc. He said the drains in the service bay are now closed and plugged

1015 Mr. Jones told NUS personnel of the ~~Jeep~~ NUFS 2/5/91 easement behind the property for the electrical lines. Robert Carlotto 2/5/91 Mike Schuster 2/5/91

Jerry Jones Mack INC

GREEN POND ROAD (RT 513)
ROCKAWAY, NEW JERSEY 07866
(201) 625-3330

GERALD F. JONES, JR.
PRESIDENT

1020. Mr. Jones said the easment is a dirt road used by PSE&G to service the line, by dirt bike riders, jeeps, and there are also hunters that go back there

1025 Mr. Jones leaves us with his workers who show us where the wells are. Two wells are flush mount. The dry well has a manhole cover over it. Mr. Jones has sent someone to get the keys to the wells

1035 Set up decon area at fence behind building Begin preparing to do recon

1050 Ready to do recon. Worker went to look for well key - to see if they arrived

1100 Steve Okulewicz conducts site safety meeting

1105 Leave decon pad with worker. Worker says building next door was built 4 years ago. The building is a freezer industry. Behind fence on southeast side of buiding are dirt bike tracks Walking thru brush to Beaver brook

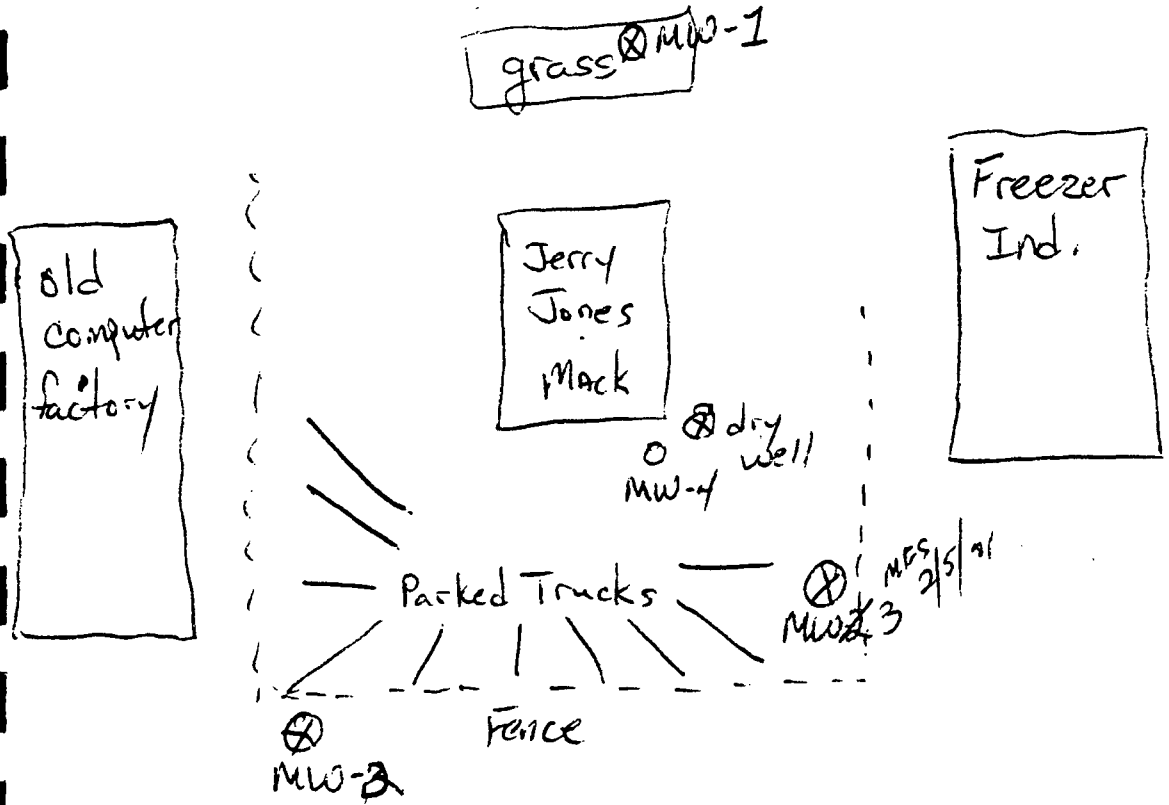
1110 Arrive at marshy area near creek. Can't approach creek because of wetlands Worker says his name is Everett. Deer stool observed near marsh. No reading above background on OVA or HNu from marsh.

Phillip [illegible] 2/5/91 [illegible] 2/5/91

Jerry Jones Mack Truck 2/5/91 02-4101-03

North

Sketch



Philip Ciccolella 2/28/91

Mike Schwartzer 2/9/91

1111 1P1/S1 Photo looking southeast at a bearing of 147° from southeast corner of ~~warehouse~~ at marshy area building. MFS 2/5/91

1117 1P2/S2 Photo looking northeast at electrical easement/dirt road turnaround area. ~~with~~ MFS 2/5/91 This is where PSE&G vehicles service the line. Some dirt bike tire imprints were observed.

1120 Everett says the building to the southwest is closed down. It was an old computer place. There have been 4 monitoring wells observed

1125 Return from recon to decon pad to prepare to open and measure wells. Everett leaves to get box wrench to open well nearest corner of building. No readings above background at any time during record

1130 Steve O. and Tony C. preparing SCBAs for use in opening monitoring wells. Leave decon pad.

1135 Arrive at MW-~~2~~ 3 MFS 2/5/91 PVC piping is 2" in diameter Steve O. and Tony C. go on dir. Tony C. begins to unscrew cap. No readings above background on OVA or HNu from MW-~~2~~ 3 MFS 2/5/91

1138 Begin measuring well depth 4' 4" from top of casing to the water level in MW-~~23~~ MFS 2/5/91 Depth of well from top of casing to bottom is 24' 5"

Philip Cecilia 2/28/91 Mike Schweitzer 2/5/91

ENGINEERS
SURVEYORS
PLANNERS
GEOLOGISTS
MUNICIPAL SERVICES
LANDSCAPE ARCHITECTS
ENVIRONMENTAL CONSULTANTS

DANIEL P. CLAYCOMB
GEOLOGIST

STORCH | ENGINEERS

220 RIDGEDALE AVE., P.O. BOX 267
FLORHAM PARK, NJ 07932
1-201-822-2600

Jerry Jones Mack Truck 2/5/91 02-9101-03

1148 Steve O. and Tony C. decon M-Scope. Steve O. and Tony C. come off air.

1145 1P3/S3 Photo looking east from ~~southeast corner of building~~ at MW-3 MFS 2/5/91 ~~MW-2~~ Man from Storch engineers arrives to open all the other wells because he has the only key. Leave MW-3 MFS 2/5/91

1148 Arrive at MW-4 - Steve O. and Tony C. go on air. Well is approximately 8' from southeast corner of building. Open MW-4. OVA pegged on 100 scale.

1150 5'5" from top of casing to water level. 13'8" from top of casing to bottom of well. Flush test was done and apparently OVA readings were due to methane.

1158 1P4/S4 Photo looking southeast at MW-4 ~~from southeast corner of building~~. Steve O. and Tony C. go off air. Leave MW-4 MFS 2/5/91

1201 Arrive at MW-1 Steve O. and Tony C. go on air.

1205 Crowbar used to pop lid on well casing. No reading above background on OVA or HNu. 8' from water level to top of well stickup inside casing. 31'8" from stickup to bottom of the well. Steve's bell goes off 1'6" from ground to top of stick up.

1212 1P5/S5 Photo looking southeast at MW-1. Steve O. and Tony C. come off air.

1215 1P6/S6 Photo looking South at Jerry Jones Mack Truck building. Leave MW-1

2/5/91 Mike Silvestri

1217 1P7/S7 Photo looking east at Jerry Jones Mack Truck building

1219 1P8/S8 Photo of parked trucks along fence at rear-end of building. Return to decon pad so Steve O. can change tanks

1221 Arrive at decon pad

1225 Leave decon area for MW-2

1226 Arrive at MW-2. Steve O. and Tony C. go on air and open MW-2. No readings above background on OVA or HNu. 5'9" from stick-up to water table 31' from bottom of well to top of the stick-up. 1'6" from ground to top of stick-up

1230 1P9/S9 Photo looking northwest at MW-2, Steve O. and Tony C. go off air. Leave MW-2 and return to decon pad

1232 Arrive at decon pad

1234 Leave decon pad to observe dry well

1235 1P10/S10 Photo looking south at cover of old dry well. Well is approximately 5' from southeast corner of building.

1237 Return back to decon and begin breaking down

1250 Return to office to speak with Mr Jones.

1252 Tell Mr Jones we are finished. He asked us how the Harley Cadillac job & Mike Schweitzer 2/5/91

place looked and we said we would want to come back and Sample during the week of Feb 18, 1990. He said he didn't care as long as it didn't cost him. He said we could call Storch Engineering to get results of some prior studies. Mr Jodes said he understands the concern for the environment but his wells have been clean for 5-6 years.

1300 MR. Jones said he installed the wells at the advice of his lawyer and it cost a lot to install them. He said the NJDEP monitors the wells about 4 times a year at his expense. This was due to the trouble created by industries and an arsenal around his property, particularly upstream from Beaver Brook

1310 Depart from site

Kathy Cicalla 2/28/91 Mike Curtis 2/5/91

Photograph Log

All Photographs taken by Mike Schweitzer

Number	Time	Description
1P1/S1	1111	Photograph looking southeast at marshy area at a bearing of 147° from southeast corner of building
1P2/S2	1117	Photograph looking northeast at electrical easement / dirt road - turn around area.
1P3/S3	1145	Photo looking east at MW-3
1P4/S4	1158	Photo looking southeast at MW-4.
1P5/S5	1212	Photo looking southeast at MW-1.
1P6/S6	1215	Photo looking south at Jerry Jones Mack Truck building.
1P7/S7	1217	Photo looking east at Jerry Jones Mack Truck building.
1P8/S8	1219	Photo of parked trucks along fence at rear end of building
1P9/S9	1230	Photo looking northwest at MW-2
1P10/S10	1235	Photo looking south at cover of old dry well

Photos Developed 2/28/91 Mike Schweitzer

Jerry Jones Mack Truck 2/21/91 02-9101-03

Site Sampling Inspection

Date: 2/21/91

Time of Arrival: 1345

Time of Departure: approx 1435

NUS Personnel On-Site			Duties On-Site
Mike Schweitzer	MS	2/21/91	Site Manager
Steve Okulewicz		2/21/91	Site Safety Officer
Phil Cicolello	PC	2/21/91	Sample Management Officer
Rich Settino	RS	2/21/91	Sampler
Tom Mulder	TM	2/21/91	Sampler

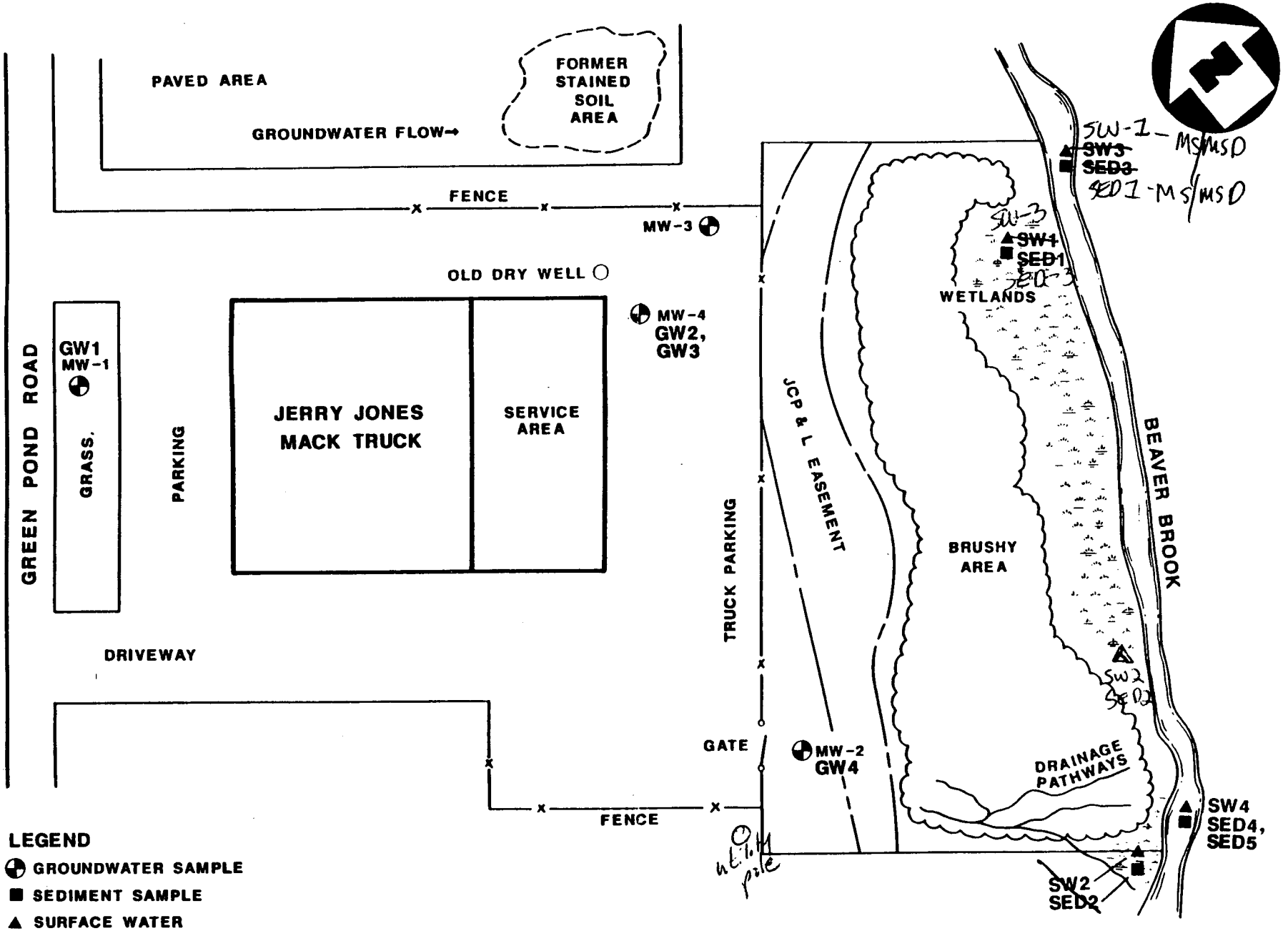
Work plans and QA/QC requirements were discussed with the above listed personnel

Weather Conditions: Sunny, Temp 42°F, Wind from NW at approximately 0-5 mph.

Site Contact: ~~Jerry~~ 2/21/91 Jones Jr. Gerald

Equipment	EPA ID Number	Background Reading
OVA O&C	428696 & 307133	0 ppm
HNu G 10.2 probe	469747, 469753 (probe)	0 ppm
Mini Alert	731689	14 cpm
Camera-prints	731693	
Camera-slides	307126	
Compass-D	684178	
SCBA-Rich S.	428551	
SCBA-Tom M.	307175	
SCBA-Steve O.	629759	

Phil Cicolello 2/28/91 Mike Schweitzer 2/28/91



PRE-SAMPLE LOCATION MAP

JERRY JONES MACK TRUCK, ROCKAWAY, N.J.

NOT TO SCALE

FIGURE 3

NUS CORPORATION

Jerry Jones/Mack Truck 2/21/91 02-9101-03

0845 ARRIVE at Site and speak with Bill Koch who says he forgot to get the keys to wells from Storch Engineering. He tells me to speak with Mike in the service department about where to set up decon pad. He says he will call immediately for keys.

0858 Begin setting up decon pad

0910 Still setting up decon pad, warming up instruments.

0925 Begin decon'ing equipment

0940 Continue decon'ing equipment

0955 Prime Pump - Honda Trash Pump

1010 Preparing to leave decon for MW-1

015 Steve O. conducts tailgate safety meeting. Leave decon pad to purge MW-1. Girl from Storch Engineering arrives and opens monitoring wells MW-1, MW-4, MW-2

1020 Arrive at MW-1 and set up to purge

1023 Rich S. and Tom M. go on air to open well. Well is opened. 0.5 ppm on OVA above background. After well vented, no readings above background on HNu or OVA. 7'7" from top of casing to water. 1'6" from ground to top of casing. 31'8" from top of casing to bottom of well. Steve C. on backup

1031 Tom M. and Rich S. come off air

Phil Cedillo 2/22/91 Mike Schroeder 2/22/91

Jerry Jones Mack Truck 2/21/91 02-9101-03

1035 40 sec to fill 5-gallon pail
4 gallons in cylinder x 3 volumes = 12 gallon
$\frac{12 \text{ gallon}}{5 \text{ gallon}} = 2.4 \times 40 \text{ sec} = 96 \text{ sec}$ till proper amount is purged.
No readings above background on HNu or OVA from H_2O
pH of H_2O is 5

1042 3 volumes have been pumped out of well

90% recharge
90% x 24 feet = 21.6 feet
24 feet - 21.6 feet = 2.4 feet
2.4' + 8' = 10.4 feet to water for 90%

1045 H_2O up to 7'9" - quick recharge, okay to sample
2" bailer will not go down well. Will call office for 1" bailers and leave MW-1 for last. OVA not working - burned out.

1051 Leave MW-1 for decon pad.

1052 Arrive at decon pad and call office

1053 Leave decon area. Will be using OVA C now. Pump on OVA D is burned out

1055 Arrive at MW-4

1100 Ready to purge MW-4

1103 Rich S. and Tom M. go on air to open well MW-4
OVA pegged on 100x. Fluctuated between 400 ppm and pegged. No readings on HNu above background

1107 5'2" from ground level to H_2O. 14' from ground to bottom of well. 1000 ppm on OVA above background
30 sec to fill 5 gallon pail. Water is soapy. pH is 5
Sally Carroll 2/28/91 Mike Schuetz 2/21/91

1110 Calculations: 7 gallon in well x 3 = 21 gallons

$\frac{21 \text{ gallon}}{5 \text{ gallon}} = 4.2 \times 30 = 126$ sec and well will be purged 3 volumes.

1112 After 30 seconds well is pumped dry.

1115 Rich S. and Tom M. come off air while we wait for well to recharge.

90% recharge .9 x 11 = 9.9 feet

11 - 9.9 = 1.1

1.1' + 5.2' = 6.3' to depth and it will be 90% recharged.

1125 Pump well dry again. It is not recharging fast enough to sample. Will come back to sample later. Rich S. and Tom M. go back on air to pump well dry 4ppm above background on OVA. No reading above background on HNu

1127 Rich S. and Tom M. come off air

1128 Leave MW-4 to purge MW-2

1140 Arrive at MW-2 with equipment to purge well.

1146 Rich S. and Tom M. go on air. Well is opened No readings above background on HNu or OVA. 2 dirtbike riders pass on JCP&L Easement. 5'6" from top of casing to H_2O. 31' from top of casing to bottom of well.

Patty Cicalla 2/21/91 Mike Schuster 2/21/91

1155 4 gallons in H_2O column x 3 = 12 gallons
35 sec. to fill 5-gallon pail
2.4 x 35 = 84 second to purge 3 volumes

H_2O is orange in color, pH of 5, 40 ppm on OVA above background. No readings above background on HNu from H_2O. Tom M. & Rich S. come off air.

1200 90% recharge .9 x 25 = 22.5
25 - 22.5 = 2.5
5.5' + 2.5' = 8 feet - then there will be 90% recharge.

1210 2" Bailer will not fit down well. Water level is at original level of 5'6" from top of casing to H_2O level. Will wait for 1" bailers to arrive to sample & MW-2. Leave MW-2 for decon pad. MFS 2/21/91 Well has vented. No readings above background on OVA or HNu

1215 Arrive back at decon pad

1230 Leave decon pad for surface water/sediment samples

1240 Arrive at location of SW4/SED4, SED5

1245 pH of H_2O in Brook is 5. 2P1/S1 Photo of Tom Mulder collecting NJIQ SW-4 at a ~~bearing~~ distance of 1200 feet and a bearing of 145° from utility pole behind building ~~next to~~ Jerry Jones Mack Truck MFS 2/21/91
5 drops HCl added to VOAs
No readings above background on HNu or OVA approximately on south side of

1250 2P2/S2 Photo of Rich Settino collecting NJIQ SED-4 at a distance of 1200 feet and a bearing of 145° from utility pole behind building next to Jerry Jones Mack Truck Mike Schweder 2/21/91

Photo collected

Jerry Jones Mack Truck 2/21/91 02-9101-03

1250 (cont) No readings above background on HNu or OVA from sediment sample NJIQ-SED4

1255 2P3/S3 Photo of Rich Settino collecting sediment sample NJIQ-SED5 at a distance of 1200 feet and a bearing of 145° (MFS 2/21/91) from utility pole located behind building next to Jerry Jones Mack Truck. NJIQ-SED5 is a duplicate of NJIQ-SED4 No readings above background from sediment on HNu or OVA

1300 Leave SED-5 area and go to wetlands for SW-2, SED-2

1310 Arrive at area of samples NJIQ-SED-2, NJIQ-SW2 pH of H_2O is 5, 5 drops HCl added to VOAs

1315 2P4/S4 Photo of Rich Settino collecting sample NJIQ-SW2 at a distance of 350 feet ~~from southwest~~ and a bearing of 141° from southwest corner of fence (MFS 2/21/91) ~~post~~ surrounding approximately (MFS 2/21/91) Jerry Jones Mack Truck
No readings above background on HNu or OVA from H_2O

1320 2P5/S5 Photo of Tom Mulder collecting sample NJIQ-SED2 at a distance of approximately 350 feet and a bearing of 141° from southwest corner of fence surrounding Jerry Jones Mack Truck
No readings above background on HNu or OVA from sediment

1325 Leave location of NJIQ-SED2

1333 Arrive at location of NJIQ-SW2

Philip Cuddeback 2/28/91 Mike Schweitzer 2/21/91

1340 2P6/S6 Photo of Tom Mutter collecting sample NJIQ-SW-1 at a distance of approximately ~~50~~ feet and a bearing of 115° from ~~fence post~~ southeast corner of fence surrounding Jerry Jones Mack Truck MPS 2/21/91
No readings above background on HNu or OVA. pH of H_2O is 5. 5 drops HCl added to VOAs
This sample is an MS/MSD sample

1345 2P7/S7 Photo of Tom Mulder collecting sample NJIQ-SED1 at a distance of approximately 500 feet and a bearing of 115° from southeast corner of fence surrounding Jerry Jones Mack Truck. No readings above background on HNu or OVA from sediment. This sample is an MS/MSD Sample.

1400 Leave SED-1 area for SW3/SED3 area.

1402 Arrive at location of SW3/SED3

1405 2P8/S8 Photo of Rich Setting collecting sample NJIQ-~~SED~~ SW3 at a distance of 730 feet and a bearing of 130° from southeast corner of fence surrounding Jerry Jones Mack Trust. No readings above background on HNu or OVA. pH of H_2O is 5 MPS 2/21/91

1410 2P9/S9 Photo of Rich Setting collecting sample NJIQ-SED3 at a distance of 730 feet and a bearing of 130° from southeast corner of fence surrounding Jerry Jones Mack Truck. No readings above background on HNu or OVA.

1420 Leave location of SED3 for decon pad

1430 Arrive back at decon pad
Philip Cuolito 2/21/91 Mike Schwartz 2/21/91

1440 leave decon pad for NJIQ-GW4

1445 Arrive at MW-2

1450 2P10/S10 Photo of Rich Selking collecting sample NJIQ-GW4 at a bearing of 120° from monitoring well MW-2 located 32'6" from southwest corner of fence surrounding Jerry Jones Mack Truck. No readings above background on HNu or OVA from well or H_2O

1457 Leave MW-2 for decon pad

1458 Arrive at decon pad

1500 Leave decon pad for MW-4

1505 Arrive at MW-4

1509 Rich S. and Tom M. go on air. Open well - 1 ppm on HNu H_2O level is 5'2" - okay to sample. No readings on OVA - it has burned out

1515 2P11/S11 Photo of Tom Mulder collecting sample NJIQ-GW2 from MW-4 at a distance of 8'6" feet and a bearing of 142° from southeast corner of building.

1518 2P12/S12 Photo of Tom Mulder collecting Sample NJIQ-GW3 from MW-4 at a distance of 8'6" feet and a bearing of 142° from southeast corner of building. GW3 is a duplicate sample. Rich S. and Tom M. go off air.

1521 Leave MW-4 for ~~decon pad~~ MW-1 MPS 2/21/91

1526 Arrive at MW-1

Charles Cicalla 2/28/91 Mike Schwartz 2/21/91

1530 2/13/513 Photo of Rich Settino collecting sample NJIQ-GW1 from monitoring well MW-1 at a distance of 48'4" and a bearing of 244° from utility pole BT 3504.

1540 Leave MW-1 for decon pad.

1542 Arrive back at decon pad.

1550 Begin cleaning sample instruments

1600 Begin breaking down decon pad.

1615 Breaking down decon pad

1630 Leave decon area and return to office

1635 Tell another worker in the office that we are finished ~~our~~ work and are leaving. He asked me how they looked and I said we won't know until the data comes back.

1730 Sample coolers shipped with proper custody seals and chain of custody receipts via Federal Express, Edison, NJ.

Organic Samples Sent To: Gulf South Environ Labs
6801 Press Dr. East bldg.
New Orleans, LA 70126

Inorganic Samples Sent To: Skinner and Sherman Inc.
300 Second Ave
Waltham, MA 02254

JERRY JONES MACK TRUCK
02-9101-03
3/28/91

PHOTOGRAPH LOG
SITE INSPECTION – 2/21/91

PHOTO NO.	DESCRIPTION	TIME
IP/1$-1	Photo of T. Mulder collecting surface water sample NJIQ-SW4 from Beaver Brook.	1245
IP/1$-2	PHOTO OF R. Settino collecting sediment sample NJIQ-Sed 4 (SW-4 location).	1250
IP/1$-3	Photo of R. Settino collecting sediment sample NJIQ-Sed 5 (SW-4 location)	1255
IP/1$-4	Photo of R. Settino collecting surface water sample NJIQ-SW2 from Beaver Brook	1315
IP/1$-5	Photo of T. Mulder collecting sediment sample NJIQ-Sed 2 (SW2 location)	1320

Philip Ciarlillo 3/28/91

3/28/91

JERRY JONES MACK TRUCK
02-9101-03
3/28/91

PHOTOGRAPH LOG (cont)
SITE INSPECTION - 2/21/91

Photo No.	Description	TIME
IP/1 - 6	Photo of T. Mulder collecting surface water sample NJIQ-SW1 from Beaver Brook	1340
IP/1 - 7	Photo of T. Mulder collecting sediment sample NJIQ-Sed 1 (SW1-location).	1345
IP/1 - 8	Photo of R. Setting collecting surface water sample NJIQ-SW3.	1405
IP/1 - 9	Photo of R. Setting collecting sediment sample NJIQ-SED 3.	1410
IP/1 - 10	Photo of R. Setting collecting groundwater sample NJIQ-GW-4 from MW-2.	1450

Philip Cicolella 3/28/91 Jerry Jones 3/28/91

JERRY JONES MACK TRUCK
02-9101-03
3/28/91

Photograph Log (cont)
Site Inspection 2/21/91

Photo No.	Description	Time
IP/18-11	Photo of T. Mulder collecting groundwater sample NJIQ-GW-2 from MW-4	1515
IP/18-12	Photo of T. Mulder collecting groundwater sample NJIQ-GW3 from MW-4	1518
IP/18-13	Photo of R. Sothine collecting groundwater sample NJIQ-GW-1 from MW-1.	1530

Phillip Cirillo 3/28/91

Jerry Jones 3/28/91